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A Check List of Porto Rican Fung.

A. STEVENSON.

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A CHECK LIST OF PORTO RICAN FUNGI AND A HOST INDEX.¹

By JOHN A. STEVENSON, Pathologist, Insular Experiment Station.

INTRODUCTION.

Published information concerning the fungi of Porto Rico is scattered through a considerable number of articles, which have been issued to a large extent outside the Island, so as not to be readily available to those attempting the study of this group of plants locally. For this reason it has been considered desirable to compile and present in one publication a list of all fungi reported from or known to occur in Porto Rico, together with the host plants or substrata on which the various species occur. For convenience of reference an index to the hosts is also given, as well as a list of such publications on island species as have been encountered.

It is very clearly realized that the species here listed do not by any manner of means represent the complete fungus flora of the Island. The list may rather be considered as a starting point for more intensive work, and it is hoped that the publication and distribution of this preliminary paper may stimulate interest among local collectors, and so bring about important additions to the list. It should be easily possible to double the number of species here reported. In fact, the working up of the undetermined material now in the herbarium of this Station will add considerably to the number of species known, and similarly the as yet unnamed portions of the collections of Dr. Stevens and other collectors give promise of many species new to the Island.

History of work with Porto Rican fungi.

The earliest recorded collection of the fungi of Porto Rico was made in 1854 by Carl Schwanecke, for the most part in the vicinity

¹ Exclusive of the lichens or algiculous fungi.

of Humacao, and the specimens were determined by Klotzsch, who listed them in *Linnaea* (50).¹ It was not until 1884-87 that further collections were made, during which period P. Sintenis visited various parts of the Island. The fungi gathered by him were worked over by J. Bresadola, P. Hennings, and P. Magnus and their determinations were published in 1893 (76). A recapitulation of these two lists was given by Heller (35) in 1900.

The work of these two collectors was apparently all that was accomplished during the time of Spanish sovereignty. As far as known to the writer the late Dr. Stahl made no mention of fungi in his writings, although he did serve at one time on a royal commission appointed to study a cane disease.

Since the change in government in 1898 the collecting and studying of the fungi has been carried on by workers connected with the experiment stations, and by a number of northern botanists who have made collecting trips to the Island.

Since the year 1903, the reports of the Federal Experiment Station at Mayagüez have contained references to various fungi from an economic standpoint. These have included notes by Barrett (6-9) on diseases of oranges, *yautía*, vegetables and other crops, by Henriksen (36) on diseases of vegetables, and by Fawcett (22-32) on diseases of coffee, sugar cane, citrus, banana, cacao, and vanilla. The latter has in addition to his annual reports as pathologist of the Station published a bulletin on coffee diseases (31), and a short article on *Pellicularia* (28). Some of the entomogenous fungi have been mentioned by Tower (100). A banana disease due to a vascular fungus parasite has been studied by Brandes (10, 11) of the same institution.

Work on the fungi as disease-producing agents of sugar cane was immediately taken up at the experiment station of the Sugar Producers' Association following its establishment in 1910. Reports of this work were issued from time to time as publications of the station (38-48). Following the transfer of the institution to the Insular Government, studies were begun on diseases of other crops in addition to the sugar-cane investigations. Results obtained have been issued in the various station publications prepared by the present pathologist (84-96). These have been concerned with diseases of citrus, vegetables, and minor economic plants.

The first of the American botanists to collect fungi, at least to any great extent, was A. A. Heller, who together with Mrs. Heller

¹ Figures in Parenthesis refer to "Literature cited," p. 250.

made an extensive collecting trip during the early part of 1900. The determinations of their specimens, including seventeen new species, were made by Prof. F. S. Earle (19). Some time later the same mycologist published additional notes on the same collection, for the most part as new species (21). Professor Earle himself (20) made a visit of exploration in 1903, giving most attention to fungi attacking economic plants.

Dr. G. P. Clinton, at the request of the Experiment Station, spent some time on the Island in 1904, in connection with a threatened outbreak of coffee rust, and collected some fungi, particularly the smuts. Prof. E. D. Holway collected rust fungi in about 1910. His specimens are reported upon by Dr. Arthur (3), in connection with the Stevens' collection.

Fungi have been collected to some extent on the various field expeditions of Dr. N. L. Britton, director-in-chief of the New York Botanical Garden, and members of his staff. These specimens have been described or mentioned in the publications of the mycologists of the Garden.

Dr. Bruce Fink of Miami University spent several months in 1915-16 collecting in various parts of the Island, giving particular attention to the lichens and Ascomycetes, but has as yet published only a preliminary paper (33). A report of his findings should very materially add to the number of known species.

During the same year Dr. E. W. Olive of the Brooklyn Botanic Garden, and Prof. H. H. Whetzel of Cornell University, made a very complete collection of the rusts, together with some other fungi. The rusts were worked over and reported by Dr. Arthur (4), and in part by themselves (71).

The most extensive fungus collections have been made by Dr. F. L. Stevens, now of the University of Illinois. These specimens were gathered during the period of his deanship of the College of Agriculture of Porto Rico and during one subsequent trip (79). The number of specimens obtained totaled several thousands. The rusts of this collection have been enumerated by Dr. Arthur (3), and Dr. Stevens and several of his students have worked on other groups (16, 17, 34, 51, 60, 61, 80, 81, 82, 83, 103, 104). Their studies have resulted in a very large number of species being reported as new, particularly in the genera *Meliola*, *Cercospora*, *Phyllosticta*, and *Mycosphaerella*.

An interesting phase of the subject of Porto Rican fungi, and one of no little importance, is that of species connected with certain human diseases. One article only has been seen treating of fungi

from this viewpoint, but there doubtless are others. Dr. King in the paper in question (49) mentions *Epidermophyton cruris* (*tinea cruris*), *Cladosporium Mansoni* (black ringworm), and *Malassezia tropica* (*tinea flava*), all causing skin diseases.

Acknowledgments.

Acknowledgment must be made for help received during the preparation of this list from a considerable number of sources. Several mycologists have worked over portions of the collections of the Insular Experiment Station and furnished determinations. These have included Dr. F. J. Seaver, and Dr. Wm. A. Murrill, New York Botanical Garden; Dr. E. A. Burt, Missouri Botanical Garden; Prof. C. G. Lloyd; Dr. W. C. Sturgis; and Dr. C. R. Orton, Pennsylvania State College. I am also indebted to Dr. Seaver for permission to use data from a preliminary list of the Porto Rican fungi deposited in the portion of the herbarium of the New York Botanical Garden under his charge, as well as for other favors. Drs. Burt, Sturgis, and Orton and Professor Lloyd have examined and made suggestions as to corrections in portions of the manuscript submitted to them. Mr. H. E. Thomas, formerly of the Mayagüez Experiment Station, has furnished information from his notes. From Dr. Olive and Professor Whetzel I have received a set of the specimens collected by them during their visit to the Island, in so far as the material has been worked up. This has afforded a considerable amount of additional data.

To Dr. Stevens of the University of Illinois I am particularly indebted for copies of his publications on Porto Rican fungi, and for the loan of a card index of fungi and hosts, based on his collections.

Plan of the work.

It is the aim of the present list to record the fungi reported as occurring in Porto Rico, together with the hosts or substrata, the localities in which they have been collected, the name of the respective collectors, and all bibliographical citations. When the collector has been other than a member of the staff of the Insular Experiment Station, past or present, his name is given in parenthesis following the localities. Semicolons, it will be noted, are used to separate the work of different collectors. Our own collections are cited first, followed by such others as have been made. Where more than one collection has been made in the same locality the earliest in point of

time is given as a rule. In some instances the first collection found in working up the list has been used.

Those who have made the collections represented in the herbarium of the Insular Experiment Station are Mr. John R. Johnston, pathologist 1910-1914, to whom credit is due for initiating not only the herbarium but the other botanical work of the Station; the writer, assistant pathologist 1913-14, pathologist and botanist to date; Mr. R. C. Rose, assistant pathologist 1916-17.

No attempt has been made at a critical study of the species listed. It is realized that many of those given will in the course of time be recombined, reduced to synonymy, or otherwise changed in name, but neither time nor facilities are available here for systematic work of this nature. The system of classification used is entirely one of convenience and has no other significance, either as a proposed new plan, or even as the personal views of the writer.

MYXOMYCETES.¹

CERATIOMYXACEÆ.

CERATIOMYXA FRUCTICULOSA (Muell.) Macbr.

On rotten wood, Palo Seco.

PHYSARACEÆ.

PHYSARUM CINEREUM (Batsch.) Pers.

Fruiting on living leaves and stems of *Phaseolus vulgaris*, *Saccharum officinarum*, *Lactuca sativa*, *Vigna unguiculata*, and other plants, Río Piedras, Martín Peña, Manatí (48).

PHYSARUM COLUMBINUM (Rost.) Sturgis.

(*Tilmadoche compacta* [Wing.] McB.) (82).

On rotten wood, Río Piedras.

PHYSARUM COMPRESSUM Alb. & Schw.

On Sugar-cane debris, Cortada (48).

PHYSARUM DIDERMOIDES (Ach.) Rost.

On rotten wood, Río Piedras.

PHYSARUM PUSILLUM (B. & C.) List.

(*Physarum nodulosum* [Cooke & Balf.] Mass.)

On rotten sacking, and also found fruiting on living sugar-cane leaves, Río Piedras (48).

PHYSARUM VIRIDE (Bull.) Pers.

On rotten wood, Moca, Río Piedras.

¹ The determinations in this group were made for the most part by Dr. William C. Sturgis.

FULIGO SEPTICA (L.) Gmel.

(*Fuligo ovata* [Schaeff.] Macbr.) (48).

On dead cane leaves, banana debris, rotten wood, Pueblo Viejo, Sabana Llana, Río Piedras, Juana Díaz (48).

CRATERIUM AUREUM (Schüm.) Rost.

On humus and cane trash, fruiting at times on living stalks and leaves, Ponce, Río Piedras (48).

CRATERIUM LEUCOCEPHALUM (Pers.) Ditm.

On dead leaves and debris, fruiting at times on living sugar-cane leaves, Pueblo Viejo, Río Piedras (48).

DIDERMA EFFUSUM (Schw.) Morg.

On dead leaves of *Pandanus utilis*, Río Piedras.

DIDERMA SPUMARIODES Fr.

On dead leaves and rotten wood, Martín Peña.

DIACHÆA LEUCOPODA (Bull.) Rost.

var. GLOBOSA List.

On dead grass and leaves, Río Piedras. Reported by Stevens on *Pitcairnia angustifolia*, Naguabo, Sta. Ana (82).

DIDYMIACEÆ.

DIDYMIUM NIGRIPES (L.) Fr.

Fruiting on living leaves of *Wedelia trilobata*, and *Commelina nudiflora*, Pueblo Viejo, Río Piedras.

STEMONITACEÆ.

COMATRICHA LANGA Peck.

On dead wood, Porto Rico (Stevens) (82).

STEMONITIS FUSCA Roth.

On sugar-cane trash, Río Piedras (48).

STEMONITIS HERBATICA Pk.

On rotten wood, Pueblo Viejo.

STEMONITIS SPLENDENS Rost.

On rotten wood and cane trash, Río Piedras, Martín Peña, Vega Baja (48).

CRIBRARIACEÆ.

DICTYDIUM CANCELLATUM (Batsch.) Macbr.

On dead sugar-cane leaves and stalks, Río Piedras (48).

TUBULINACEÆ.

TUBIFERA FERRUGINOSA (Batsch.) Gmel.

On rotten wood, Palo Seco.

LYCOGALACEÆ.

LYCOGALA EPIDENDRUM (L.) Fr.

On rotten wood and sugar-cane trash, Río Piedras, El Duque (48).

ARCYRIACEÆ.

ARCYRIA DENUDATA (L.) Sheld.

On rotten wood and sugar-cane trash, Río Piedras, Martín Peña, (48).

ARCYRIA CINEREA (Bull.) Pers.

On rotten wood and sugar-cane trash, Río Piedras, Pueblo Viejo (48).

ARCYRIA PUNICEA Pers.

Reported from Fajardo in the Schwanecke collection (50).

TRICHIACEÆ.

HEMITRICHIA VESPARIUM (Batsch.) Macbr.

On rotten wood, Río Piedras.

HEMITRICHIA CLAVATA (Pers.) Rost.

On rotten wood, Martín Peña.

SCHIZOMYCETES.

COCCACEÆ.

MICROCOCOCCUS NIGROFACIENS Northrup.

Causing a disease of various stages of *Phyllophaga* spp., Río Piedras, Guánica (69, 78).

BACTERIACEÆ.

BACILLUS CAROTOVORUS Jones.

Producing a soft rot of carrots, cabbages, celery, and other vegetables, Río Piedras.

BACILLUS MESENTERICUS (Flügge) L. & N.

Causing "ropy" bread, Río Piedras, San Juan.

BACILLUS PRODIGIOSUS (Ehr.) L. & N.

Occasional as a contamination of cultures, Río Piedras.

BACILLUS RADICICOLA Bey.

Common on a wide range of leguminous hosts.

BACILLUS SUBTILIS (Ehr.) Cohn.

Common as a contamination in poured plates, Río Piedras.

BACTERIUM CAMPESTRIS Pamm.

On *Brassica oleracea*, Mayagüez (Thomas) (36, 90).

BACTERIUM PHASEOLI Er. Sm.

On *Phaseolus vulgaris*. Causes a serious leaf and pod disease, Río Piedras (90, 94).

BACTERIUM SOLANACEARUM Er. Sm.

Causing a serious wilt disease of *Lycopersicum esculentum*, *Solanum melongena*, *Nicotiana tabacum*, *Solanum tuberosum*, Río Piedras. A wilt disease of *Helianthus annuus*, probably attributable to this species reported by Thomas (15, 36, 56, 77, 90, 94).

PHYCOMYCETES.**CHYTRIDIACEÆ.****OEPIDIELLA UREDINIS** Lagerh.

On *Puccinia levis* on *Rytidix granularis* (*Manisuris granularis*), Maricao (Sintenis) (76).

SYNCHYTRIUM DECIPIENS Farl.

On *Rhynchosia reticulata*, Palo Seco; Quebradillas, Cabo Rojo (Stevens) (82).

PERONOSPORACEÆ.**ALBUGO BLITI** (Biv.) Kuntze.

On *Amaranthus viridis*, Río Piedras, Barceloneta.
Amaranthus spinosus, Barceloneta (82, 101).

ALBUGO CANDIDA (Pers.) Kuntze.

On *Brassica integrifolia*, Río Piedras.
Brassica japonica, Barranquitas.
Lepidium virginicum, Comerío, Bayamón; Río Tanamá (Stevens) (82).

ALBUGO IPOMÆÆ-PANDURANÆ (Schwein.) Swingle.

On *Ipomæa* sp., Espinosa; Río Piedras, Peñuelas, Mona (Stevens).

Ipomæa batatas, Río Piedras, Vega Baja, Pueblo Viejo; Monte de Oro, Río Tanamá, Consumo, Arecibo, Manatí, Corozal, Luquillo, Boquerón, Guánica, Guayanilla (Stevens) (82, 90, 94).

Ipomæa pes-capræ, Cataño, Punta Cangrejos; Dos Bocas, Guánica, Boquerón, Mayagüez (Stevens) (82).

Ipomæa pes-tigridis, Guayama.

Ipomæa rubra, Río Piedras.

ALBUGO IPOMEE-PANDURANÆ (Schwein.) Swingle—*Continued*.

On *Ipomœa tilyacea*, Garrochales, Río Piedras; San Germán (Stevens).

Jacquemontia nodiflora, Guayanilla, Mona Island (Stevens) (82).

Jacquemontia pentantha, Vega Baja.

Thyella tamnifolia, Río Piedras (101).

ALBUGO PLATENSIS (Speg.) Swing.

On *Bærhaavea erecta*, Guánica (Stevens) (82).

Bærhaavea hirsuta (Goll.) (101).

Bærhaavea panniculata, Culebra (Britton).

ALBUGO PORTULACÆ (D. C.) Kuntze.

On *Portulaca oleracea*, Mayagüez (Stevens) (82).

PERONOPLOSMOPORA CUBENSIS (B. & C.) Clint.

On *Cucumis melo*, Río Piedras, Mayagüez (36, 90, 94).

Cucumis sativus, Río Piedras, Mayagüez.

Cucurbita moschata, Río Piedras, Mayagüez.

Luffa cylindrica, Río Piedras (Stevens) (82).

PHYTOPHTHORA INFESTANS (Mont.) De Bary.

On *Lycopersicum esculentum*, Mayagüez; Maricao (W. & O.) (36, 90, 94).

Solanum tuberosum, Mayagüez (Thomas).

PHYTOPHTHORA PHASEOLI Thax.

On *Phaseolus lunatus*. Reported by Henricksen (36).

PHYTOPHTHORA TERRESTRIA Sherb.

On *Capsicum annuum*, Río Piedras.

Lycopersicum esculentum, Río Piedras, San Juan.

Phaseolus vulgaris, Río Piedras (90, 94).

The cause of a serious disease of beans and tomatoes.

MUCORACEÆ.**CHOANEPORA CUCURBITARUM** (Berk. & Rav.) Thax.

On *Hibiscus esculentus*, Río Piedras. Causing a disease of the flowers and young pods.

PILOBOLUS CRYSTALLINUS Tode.

On horse manure, Río Piedras.

RHIZOPUS NIGRICANS Ehr.

Producing a soft rot of sweet potatoes, also as a bread mold, and contamination in cultures, Río Piedras (89, 96).

ENTOMOPHTHORACEÆ.

EMPUSA FRESENI NOW.

On *Pseudococcus nipæ* on *Chrysophyllum argenteum*, Río Piedras.

on *Acalypha Wilkesiana*, Río Piedras.

on *Erythrina glauca*, Río Piedras.

Phenococcus sp., on *Psidium guayaba*, Río Piedras (46).

EMPUSA SPHÆROSPERMA (Fres.) Thaxt.

On *Laphygma frugiperda*, Río Piedras (46).

ENTOMOPHTHORA AULICÆ Reich.

On *Ecpantheria eridanus*, Naguabo, Río Piedras (46).

ASCOMYCETES.

SACCHAROMYCETACEÆ.

SACCHAROMYCES APICULATUS Reess.

Isolated from fermenting cacao and coffee (Loew) (57).

SACCHAROMYCES CEREVISIÆ Hansen.

Bread and brewer's yeast.

SACCHAROMYCES ELLIPSOIDEUS Hansen.

Isolated from fermenting cacao and coffee (Loew.) (57). and fermented grapefruit juice, Río Piedras.

PHYMATOSPHÆRIACEÆ.

MYRIANGIUM DURLÆI Mont. & Berk.

On *Aulacaspis pentagona* on *Solanum rugosum*, Río Piedras, on *Cajanus indicus*, Sabana Llana.

Hemichionaspis minor on undet. vine, Palo Seco.

Howardia biclavis on *Guettarda scabra*, Río Piedras.

Lepidosaphes beckii, and *Chionaspis citri* on *Citrus* spp., Sabana Llana, Río Piedras, Pueblo Viejo, Bayamón, Santurce, Espinosa, Vega Baja, Garrochales.

Very common everywhere on scale insects, parasitic to some extent at least (20, 46, 96, 100).

ERYSIPHACEÆ.¹

ERYSIPHE CICHORACEARUM D. C. (?).

On *Cosmos caudatus*, Sta. Ana, Río Tanamá (Stevens).

Eupatorium microstemum, Maricao (Stevens).

Solanum torvum, Rosario, Naguabo, Cabo Rojo, Maricao, Arecibo, Peñuelas, Mayagüez (Stevens) (82).

¹ All determinations in this family are provisional only, the conidial or *Odium* stage only having been found in all cases.

ERYSIPHE GALEOPSISIDIS D. C. (?).

On *Eupatorium* sp., Ponce (Stevens) (82).

ERYSIPHE POLYGONI D. C. (?).

On *Arracacia xanthorrhiza*, Indiera Fría (Stevens).

Cassia occidentalis, Guayama, Río Piedras, Rosario, Peñuelas, Arecibo-Lares, Cabo Rojo, Manatí (Stevens).

Cassia tora, Palo Seco; Maricao, Quebradillas, Aguada, Peñuelas, Guayanilla, San Germán, Guayama, Adjuntas, Mayagüez (Stevens).

Chamaecrista aschynomene, Palo Seco.

Chamaecrista diphylla, Espinosa.

Chamaecrista sp., Peñuelas (Stevens).

Dolicholus minima, Carolina.

Dolichos biflorus, Río Piedras.

Phaseolus adenanthus, Aguada (Stevens).

Phaseolus max, Río Piedras.

Phaseolus vulgaris, Río Piedras.

Pisum sativum, Río Piedras.

Vigna repens, Mayagüez (Stevens) (82).

Vigna unguiculata, Río Piedras (90, 94).

MICROSPHERA DIFFUSA D. C. (?).

On *Crotalaria retusa*, Sta. Ana, Coamo (Stevens).

Meibomia sp., Rosario, Mona Island (Stevens).

Meibomia adscendens, Utuado (Stevens).

Meibomia scorpiurus, Manatí, Guayama (Stevens).

Meibomia supina, Utuado, Jayuya (Stevens).

Meibomia tortuosa, Sabana Llana, Río Piedras; Peñuelas, (Stevens) (82).

MICROSPHERA EUPHORBIÆ (Pk.) B. & I. (?).

On *Chamaesyce braziliensis*, Mona Island (Stevens).

Chamaesyce hypericifolia, Mona Island, Jájome Alto (Stevens).

Hibiscus sabdariffa, Mayagüez (Stevens).

Manihot manihot, Río Piedras (Stevens) (82).

SPHÆROTHECA HUMULI (D. C.) Burr. (?).

On *Bidens leucantha*, Palo Seco.

Bidens reptans, Vega Baja, Maricao (Stevens) (82).

Cosmos sp., Jayuya (Stevens).

Melanthra canescens, Utuado (Stevens).

Ocimum micranthum, Utuado (Stevens).

Rosa sp., Maricao (Stevens).

Verbena sp., Maricao (Stevens).

PERISPORIACEÆ.

ANTENNULARIA (?) TENUIS Earle.

On *Musa* sp., and *Inga vera* (Heller) (21).

CAPNODIUM CITRI Berk. & Desm.

On *Citrus decumana*, Sabana Llana, Espinosa, Campo Alegre, Pueblo Viejo, Vega Baja (96).

DIMERIELLA CORDLÆ (P. Henn.) Th.

On *Cordia sulcata*, Mayagüez (Stevens) (82).

DIMERIELLA ERIGERONICOLA Stevens.

On *Erigeron pusillum*, Maricao (Stevens).

Erigeron spathulatus, Quebradillas, Maunabo, Yauco, El Gigante, Maricao (Stevens) (82).

Leptilon canadense, Río Piedras, Trujillo Alto, Vega Baja, Camuy, Arecibo.¹

DIMERIELLA OLYRE Stevens.¹

On *Olyra latifolia*, Río Piedras, Preston's Ranch, Maricao, Mayagüez (Stevens) (82).

DIMERINA JACQUINLÆ Garman.

On *Jacquinia barbasco*, Mona Island (Stevens) (34).

DIMERIOPSIS ARTHROSTYLIDICOLA Stevens.

On *Arthrostyldium sarmentosum*, Monte Alegrillo (Stevens) (82).

DIMERIUM CAYAPONIÆ Garman.

On *Cayaponia americana*, Utuado (Stevens) (34).

DIMERIUM GRAMMODES (Kuntze) Gar.

On *Crotalaria retusa*, Trujillo Alto, Pueblo Viejo; Guayama, Cabo Rojo (Stevens). From Mayagüez as *Parodiella perisporioides* (Heller collection) (19).

Meibomia adscendens, Río Piedras.

Meibomia barbata, Río Piedras (Stevens); Añasco (W. & O.) (82).

Meibomia sp., Espinosa, Río Piedras.

Phaseolus lunatus, Aguadilla (Stevens).

Phaseolus vulgaris, Río Piedras (81).

Vigna repens, Río Piedras (34).

¹ In comparing the descriptions, the great similarity between those of *Dimeriella Olyrae* and *Asterina fumagina* was noted. In response to a request for an opinion in the matter, Dr. Stevens replied as follows:

"The species as published by Dearness and Barth. is based upon specimen No. 190 of my collection. My species, *Dimeriella olyrae*, is based upon my specimen No. 6770, but the two are co-specific and the publication of Dearness & Barth. clearly has the priority.

"In the light of modern publications on this group, I believe that this fungus should be placed in the genus *Dimeriella* of Spegazzini, and therefore suggest the following:

"*Dimeriella fumagina* (Dearn. & Barth.) Stevens, comb. nov.

"(*Asterina fumagina* Dearn & Barth.)

"(*Dimeriella olyrae* Stevens.)"

DIMERIUM MELIOLOIDES (Berk. & Curt.) Gar.

On *Clusia rosca*, Maricao (Stevens) (34).

DIMERIUM STEVENSII Garman.

On *Cordia corymbosa*, Río Piedras; Quebradillas, Mayagüez, Maricao (Stevens) (34).

DIMEROSPORIUM APPENDICULATUM Earle.

On *Asterina sida* on *Sida carpinifolia* (21).

DIMEROSPORIUM TROPICALE Speg.

On *Meliola* sp., on *melastomaceous* plant. Col. N. Y. Bot. Garden.

EUROTIUM ARGENTINUM Speg.

On dead sugar-cane stalks, Río Piedras (48).

EUROTIUM HERBARIUM Lk.

On dried herbarium specimens, Río Piedras.

HYALODERMA PILIFERUM Pat.

On *Meliola* on a grass, Santurce. Coll. N. Y. Bot. Garden (82).

MELIOLA AIBONITENSIS Stevens.

On *dicotyledonous* plant, Aibonito (Stevens) (80).¹

MELIOLA AMBIGUA Pat. & Gaill.

On *Lantana camara*, Dos Bocas, below Utuado, Río Arecibo (Stevens).

Lantana odorata, Quebradillas (Stevens).

Lantana sp., Quebradillas, Dos Bocas (Stevens).

MELIOLA AMOMICOLA Stevens.

On *Amomum caryophyllata*, Mayagüez (Stevens).

MELIOLA AMPHITRICA Fr.

On *Randia aculeata* (?), Caguas (Heller collection).

Tetragastris balsamifera (*Hedwigia balsamifera*). Sintenis collection (76).

MELIOLA ANDIRÆ Earle.

On *Andira jamaicensis*, Camuy, Mayagüez; Arecibo, Martín Peña, Yauco, Santana, Maricao, Dos Bocas, Vega Alta, Lares, Manatí (Stevens) (21).

MELIOLA ARECIBENSIS Stevens.

On *Acalypha bisetosa*, Vega Baja, Dos Bocas (Stevens).

MELIOLA BICORNIS Wint.

On *Bradburya pubescens*, Espinosa.

Bradburya virginiana, Arecibo-Lares Road, Manatí, Dos Bocas, Vega Baja, Quebradillas (Stevens).

¹ Since all species of *Meliola* known to the Island are treated in Dr. Steven's paper, "The Genus *Meliola* in Porto Rico," further citations to it are omitted.

MELIOLA BICORNIS Wint.—Continued.

On *Dalbergia monetaria*, Mayagüez, Arecibo-Lares, Maricao (Stevens).

Dalbergia sp., Mayagüez, Rosario (Stevens).

Dolicholos reticulatus, Río Piedras; Florida Adentro, Vega Baja, Lares, Quebradillas, Barceloneta, Río Tanamá (Stevens).

Erythrina mycropteryx, El Miradero (Stevens).

Lonchocarpus glaucifolius, Quebradillas (Stevens).

Meibomia adscendens, Río Piedras; El Alto de la Bandera (Stevens).

Meibomia axillaris, Río Piedras; Florida Adentro, Las Marías, Mayagüez, Río Arecibo, Río Tanamá (Stevens).

Meibomia supina, Cataño, Martín Peña, Maricao, Vega Baja, Mayagüez, Florida Adentro, Río Tanamá, Dos Bocas, El Gigante, Indiera Fría (Stevens).

Mimosa ceratonia, Maricao, Río Arecibo, Vega Baja, Aibonito (Stevens).

Teramnus uncinatus, Maricao, Añasco (Stevens) (21).

MELIOLA BICORNIS var. CALOPOGONII Stevens.

On *Calopogonium orthocarpum*, Río Piedras; Dos Bocas, Mayagüez, Aguada (Stevens).

MELIOLA BICORNIS var. GALACTIÆ Stevens.

On *Galactia dubia*, Río Tanamá (Stevens).

MELIOLA BIDENTATA Cke.

On *Tabebuia hamantha*, Monte Alegrillo (Stevens).

Tecoma pentaphylla, Guanajibo (Stevens).

MELIOLA BYRSONIMÆ Stevens.

On *Brysonima lucida*, Guayanilla (Stevens).

MELIOLA CALOPHYLLI Stevens.

On *Calophyllum calaba*, Mayagüez, Vega Baja (Stevens).

MELIOLA CAPSICOLA Stevens.

On *Capsicum baccatum*, Manatí, Dos Bocas (Stevens).

MELIOLA CHAMÆCRISTÆ Earle.

On *Chamæcrista glandulosa* (Heller). Coll. N. Y. Bot. Garden (21).

MELIOLA CHAMÆCRISTICOLA Stevens.

On *Chamæcrista granulata*, Mona Island (Stevens).

MELIOLA CHIOCOCCEÆ Stevens.

On *Chiococca alba*, Vega Baja, Hormigueros (Stevens).

MELIOLA CIRGINANS Earle.

On *Mariscus jamaicensis*, Martín Peña: San Juan, Manatí (Stevens) (21).

Rynchospora aurea, Martín Peña (Heller).

Rynchospora gigantea, Martín Peña.

MELIOLA CLAVULATA Wint.

On *Ipomœa batatas*, Río Piedras: Vega Baja, Río Tanamá, Maricao (Stevens) (90).

Ipomœa cathartica, Río Arecibo, Vega Baja, El Alto de la Bandera (Stevens).

Ipomœa rubra, Río Piedras, Guaynabo.

Ipomœa tiliacea, Mayagüez (Stevens).

Ipomœa sp., Río Piedras, Espinosa: Sabana Llana, San Germán, Monacillo, Trujillo Alto, El Miradero, Mayagüez, Vega Alta (Stevens).

MELIOLA CLUSIE Stevens.

On *Clusia minor*, El Alto de la Bandera (Stevens).

MELIOLA COMOCLADIE Stevens.

On *Comocladia glabra*, Rosario, Mayagüez, Maricao (Stevens).

Spondias mombin, Maricao (Stevens).

MELIOLA COMPACTA Earle.

On *Crossopetalum pallens*. Coll. N. Y. Bot. Garden (21).

MELIOLA COMPOSITARUM Earle.

On *Eupatorium odoratum*, Trujillo Alto, Río Piedras: Dos Bocas, Rosario, Maricao, Aibonito, Utuado, El Gigante, El Miradero, Las Marías, Río Tanamá, Mayagüez, Yauco, Cataño, Jájome Alto (Stevens).

Eupatorium sp., Río Piedras, (Heller).

Willoughbea sp., Adjuntas (Heller).

MELIOLA COMPOSITARUM var. *portoricensis* Stevens.

On *Eupatorium dolicholepis*, Río Tanamá (Stevens).

Eupatorium portoricensis, Camuy: Vega Baja, Dos Bocas, San Sebastián, Arecibo-Lares (Stevens).

MELIOLA CONTORTA Stevens.

On *Piper hispidum*, Las Marías (Stevens).

MELIOLA CUCURBITACEARUM Stevens.

On *Cucurbit.* undet., El Alto de la Bandera (Stevens).

MELIOLA CUPANIE Stevens.

On *Cupania americana*, El Miradero (Mayagüez), Maricao, Dos Bocas, Quebradillas (Stevens).

Cupania sp., Quebradillas (Stevens).

MELIOLA CYCLOPODA Stevens.

On *Pseudelephantopus spicatus*, Vega Baja (Stevens).

MELIOLA CYPERI Pat.

On *Cyperus* sp., Mayagüez (Stevens).

Mariscus jamaicensis, San Juan (Stevens); Martín Peña (W. & O.).

Scleria sp., Manatí (Stevens).

MELIOLA DENTICULATA Wint.

On *Roystonea borinquena*, Arecibo-Lares (Stevens).

MELIOLA DIDYMOPANICIS P. Henn.

On *Dendropanax arboreum*, Manatí; Río Arecibo, Mayagüez (Stevens).

Dendropanax laurifolium, El Alto de la Bandera (Stevens).

MELIOLA DIEFFENBACHLÆ Stevens.

On *Dieffenbachia seguine*, Río Piedras, Espinosa; Las Marías, Maricao, Cataño, Lajas, Monte de Oro, Dos Bocas, Mayagüez (Stevens).

MELIOLA DIPHOLIDIS Stevens.

On *Dipholis salicifolia*, Guayanilla, Quebradillas (Stevens).

MELIOLA EARLII Stevens.

On *Pilea nummularifolia*, Espinosa; Jájome Alto (Stevens).

Pilea parietaria, Río Arecibo (Stevens).

Pilea sp., Flórida Adentro (Stevens).

MELIOLA FURCATA Lev.

On *Acrista monticola*, El Alto de la Bandera, Luquillo Forest (Stevens).

Coccothrinax alta, Dos Bocas (Stevens).

Macrodiscus lactiflorus, Coamo (Stevens).

Thrinax ponceana, Guayanilla (Stevens) (81).

Thrinax præceps, Dos Bocas (Stevens).

MELIOLA GAILLARDIANA Stevens.

On *Piper aduncum*, Río Arecibo, Dos Bocas, Las Marías (Stevens).

MELIOLA GESNERIÆ Stevens.

On *Cestrum laurifolium*, Maricao (Stevens).

Cestrum macrophyllum, El Alto de la Bandera, El Gigante (Stevens).

Gesneria albiflora, Mayagüez, Dos Bocas (Stevens).

MELIOLA GLABRA Berk. & Curt.

On *Drypetes* spp., Río Tanamá (Stevens).

Hypelate trifoliata, Mona (Britton).

MELIOLA GLABRA var. *psychotriæ* Stevens.

On *Coccocynselum repens*, Maricao (Stevens).

Palicourea domingensis, Florida Adentro (Stevens).

Palicourea sp., Mayagüez, Vega Baja, Utuado, Ponce, Maricao, El Gigante (Stevens).

Psychotria bertiana, El Alto de la Bandera (Stevens).

Psychotria grandis, Mayagüez (Stevens).

Psychotria pubescens, Arecibo-Lares Road, Vega Baja (Stevens).

Psychotria sp., Quebradillas (Stevens).

MELIOLA GLABROIDES Stevens.

On *Nectandra patens*, Mayagüez, Maricao (Stevens).

Piper aduncum, Indiera Fría, El Alto de la Bandera, Las Marías, Dos Bocas, Vega Baja, Mayagüez, Añasco, Maricao, Arecibo-Lares Road, Aibonito, Lares, Martín Peña, Trujillo Alto, Utuado (Stevens) (19).

Piper marginatum, Espinosa.

Sauvagesia erecta, El Alto de la Bandera, Las Marías, Maricao (Stevens).

Simaruba tulæ, Mayagüez, El Gigante (Stevens).

Solanum persicifolium, Quebradillas, (Stevens).

Solanum rugosum, Las Marías (Stevens).

Valerianodes cayennensis, Río Piedras; Sabana Llana, Trujillo Alto (Stevens).

MELIOLA GLABROIDES var. *SCHLEGELIÆ* Stevens.

On *Schlegelia* sp., El Alto de la Bandera (Stevens).

MELIOLA GUAREÆ Speg.

On *Guarea trichilioides*, Las Marías, Dos Bocas, Monte de Oro, Adjuntas, Jájome Alto, Mayagüez (Stevens).

MELIOLA GUAREICOLA Stevens.

On *Guarea trichilioides*, Las Marías, Mayagüez, Adjuntas, Monte de Oro, Dos Bocas (Stevens).

MELIOLA GUIGNARDI Gaill.

On *Turpinia panniculata*, Maricao (Stevens).

MELIOLA GYMANTHICOLA Stevens.

On *Gymnanthes lucida*, Guayanilla (Stevens).

MELIOLA HELLERI Earle.

On *Eugenia monticola*, Manatí (Stevens).

Eugenia Stahlü, Luquillo, El Alto de la Bandera (Stevens).

Myrcia deflexa, El Alto de la Bandera (Stevens).

Myrcia splendens, Jájome Alto (Stevens).

Unknown woody plant (Heller) (21).

MELIOLA HESSII Stevens.

On *Paullinia pinnata*, Sabana Llana, Mayagüez (Stevens).

MELIOLA HYPTIDICOLA Stevens.

On *Hyptis atrorubens*, Río Piedras.

Hyptis capitata, El Gigante (Stevens).

Hyptis lantanifolia, Las Marías (Stevens).

Hyptis pectinata, Dos Bocas, Maricao (Stevens).

Hyptis sp., Monte de Oro (Stevens).

MELIOLA IPOMÆÆ Earle.

On *Ipomœa batatas*, Río Piedras. Garrochales.

Ipomœa cathartica, Las Marías, Vega Baja (Stevens).

Ipomœa tiliacea, Añasco, Mayagüez (Stevens).

Ipomœa spp., El Miradero, Dos Bocas, Rosario, Maricao (Stevens); Mayagüez (Heller) (19, 90).

MELIOLA IRREGULARIS Stevens.

On *Hygrophila brasiliensis*, Río Piedras (Stevens).

MELIOLA JATROPHÆ Stevens.

On *Jatropha hernandifolia*, Río Tanama, Dos Bocas (Stevens).

MELIOLA LAGUNCULARIÆ Earle.

On *Conocarpus erecta*, Mayagüez (Stevens) (82).

Laguncularia racemosa, Martín Peña, Mayagüez, Joyuda (Stevens); Cataño (Heller) (19).

MELIOLA LONGIPODA Gaill.

On *Anona montana*, Mayagüez (Stevens).

Cordia corymbosa, Río Piedras.

Cordia nitida, Martín Peña (Stevens).

Cordia sp., Mayagüez (Stevens).

Tournefortia hirsutissima, Martín Peña, Sabana Llana; Arecibo, Dos Bocas, Quebradillas (Stevens).

MELIOLA LUCUMÆ Stevens.

On *Lucuma multiflora*, Las Marías, Guayanilla (Stevens).

* MELIOLA MAGNOLIÆ Stevens.

On *Magnolia portoricensis*, Monte Alegrillo (Stevens).

* MELIOLA MANCA Ell. & Mart.

On *Myrica cerifera*, Río Piedras; Manatí (Stevens); Cataño (Heller).

MELICOLA MANGIFERÆ Earle.

On *Mangifera indica*, Bayamón, Camuy; Mayagüez, Vega Baja, Manatí, Luquillo Forest, El Gigante (Stevens); Río Piedras (Heller) (21, 82).

* MELIOLA MARICENSIS Stevens.

On *Ilex nitida*, Maricao (Stevens).

MELIOLA MAYAGUESIANA Stevens.

On *Palicourea crocea*, Río Piedras; Las Marías. Lajas (Stevens).

Palicourea domingensis, Las Piedras (Stevens).

Palicourea riparia, Mayagüez (Stevens).

Palicourea sp., Mayagüez (Stevens).

MELIOLA MAYEPEÆ Stevens.

On *Mayepea domingensis*, Mayagüez, El Alto de la Bandera (Stevens).

MELIOLA MAYEPEICOLA Stevens.

On *Mayepea domingensis*, Mayagüez, Maricao (Stevens).

MELIOLA MELASTOMACEARUM Speg.

On *Clidemia hirta*, Maricao, Mayagüez, Las Marías, Dos Bocas (Stevens).

Clidemia strigillosa, Trujillo Alto, Lajas (Stevens).

Heterotrichum cymosum, Utuado (Stevens) (82).

Miconia impetiolearis, Mayagüez (W. & O.).

Miconia lavigata, Río Piedras, Camuy: Dos Bocas, Arecibo (Stevens).

Miconia racemosa, Río Piedras: Mayagüez, Lajas (Stevens).

MELIOLA MERRILLII Syd.

On *Cissus sicyoides*, Mayagüez, Camuy, Río Piedras: Lares, San Germán, Utuado, Villa Alba, El Gigante, Dos Bocas, Añasco, Aguada, Yauco, Manatí, Río Tanamá (Stevens).

MELIOLA MICONIÆ Stevens.

On *Miconia prasina*, Las Piedras, Las Marías (Stevens).

MELIOLA MICONIÆICOLA Stevens.

On *Miconia Sintensis*, El Alto de la Bandera (Stevens).

MELIOLA MOLLERIANA Wint.

On *Sida urcns*, Río Piedras, Quebradillas: Aguada, Mayagüez, San Germán, Añasco, Yauco, Cataño, Santana, Dos Bocas, Arecibo-Lares, Las Marías, Rosario, El Miradero (Stevens).

Varronia sp., Las Marías, El Miradero, Mayagüez, El Alto de la Bandera (Stevens).

MELIOLA MONENSIS Stevens.

On *Amyris elemifera*, Mona Island, Guayanilla (Stevens).

MELIOLA MYRSINACEARUM Stevens.

On *Ardisia guadulupensis*, Mayagüez (Stevens).

Myrsinaceæ undet., Maricao (Stevens).

MELIOLA NIGRA Stevens.

On *Laguncularia racemosa*, Guanajibo, Joyuda (Stevens).

MELIOLA OCOTEEÆ Stevens.

On *Ocotea leucoxylon*, Jájome Alto (Stevens); Maricao (W. & O.).

MELIOLA OCOTEICOLA Stevens.

On *Chrysophyllum*, Monte Allegrillo (Stevens).

Ocotea leucoxylon, Mayagüez, Monte Allegrillo (Stevens).

MELIOLA PANICI Earle.

On *Andropogon bicornis*, Las Marías, Vega Baja (Stevens).

Andropogon leucostachyus, El Alto de la Bandera (Stevens).

Chloris petraea, Mayagüez (Stevens).

Ichnanthus pallens, Maricao, Monte de Oro, Mayagüez (Stevens); El Yunque (W. & O.).

Lasiacis divaricata, Río Piedras; Arecibo, Manatí, Vega Baja, Vega Alta (Stevens).

Lasiacis Sloanei (*Panicum latifolium*), Río Piedras; Santurce (Heller) (19).

Lasiacis ruscifolia (*L. compacta*), Utuado (Stevens).

Lasiacis sorghoidea (*L. swartziana*), Añasco, Las Marías (Stevens).

Olyra latifolia, El Miradero, Mayagüez, Maricao, San Germán, Arecibo (Stevens).

Opismenus setarius, Maricao (Stevens).

Panicum glutinosum, Maricao, Monte de Oro, Utuado, El Alto de la Bandera, Ponce, El Gigante, Las Marías (Stevens).

Paspalum secans, Maricao (Stevens).

MELIOLA PARATHESICOLA Stevens.

On *Parathesis serrulata*, Las Marías, Maricao, Arecibo-Lares (Stevens).

MELIOLA PAUCIPES Stevens.

On *Piper blattarum*, Mayagüez (Stevens).

MELIOLA PAULLINIE Stevens.

On *Casearia aculeata*, Lajas (Stevens).

Casearia arborea, Monte de Oro (Stevens).

Casearia guianensis, Río Piedras.

Casearia ramiflora, Martín Peña, Barceloneta, Manatí, Vega Baja, Santana, San Germán (Stevens).

Casearia sylvestris, Río Piedras; Mayagüez, Miradero, Arecibo-Lares, San Germán (Stevens).

Casearia sp., Martín Peña, Espinosa; Dos Bocas, Mayagüez (Stevens).

MELIOLA PAULLINIE Stevens—*Continued*.

On *Mammea americana*, Maricao, Las Marías (Stevens).

Mammea americana, Maricao, Las Marías (Stevens).

Paullinia pinnata, Río Piedras; Mayagüez, Río Arecibo, Vega Baja, El Alto de la Bandera, Barros (Stevens).

✓**MELIOLA PERSEÆ** Stevens.

On *Persea gratissima*, Las Marías (Stevens).

MELIOLA PHILODENDRI Stevens.

On *Philodendron krebssii*, Arecibo-Lares, Jayuya, Ponce, Jájome Alto, Maricao, El Alto de la Bandera (Stevens).

MELIOLA PILOCARPI Stevens.

On *Pilocarpus racemosus*, Mayagüez (Stevens).

MELIOLA PIPERIS Earle.

On *Piper aduncum*, Río Piedras; Dos Bocas, Las Marías, Maricao, Monte de Oro (Stevens); Mayagüez (Heller) (19).

MELIOLA PRÆTERVISA Gaill.

On *Coccoloba pyrifolia*, Mayagüez, Jájome Alto (Stevens).

Coccoloba sintenisii, Mayagüez (Stevens).

Coccoloba sp., Martín Peña; Jájome Alto (Stevens).

Cupania americana, Manatí; Mayagüez (Stevens).

MELIOLA PSIDII Fr.

On *Psidium guayaba*, Bayamón, Río Piedras; Yauco, San Germán, Mayagüez, San Sebastián, Vega Alta, Jájome Alto, Arecibo-Lares, Dos Bocas, Vega Baja, Sabana Llana, Maricao, Utuado, Jayuya (Stevens) (19).

MELIOLA PSYCHOTRIÆ Earle.

On *Borreria lævis*, El Alto de la Bandera, Dos Bocas (Stevens).
Borreria ocimoides (Stevens).

Chiococcoa alba, Río Piedras; Mayagüez, Río Tanamá (Stevens).

Erithalis fruticosa, Quebradillas, Mona Island, Guayanilla (Stevens) (21).

Gonzalagunia spicata, Sabana Llana, El Miradero, Mayagüez, Vega Baja, Río Arecibo (Stevens).

Guetarda ovalifolia, Maricao (Stevens).

Guetarda scabra, Martín Peña.

Mitracarpus portoricensis, Río Piedras.

Psychotria sp., Martín Peña.

Randia aculeata, Martín Peña, Río Piedras; Quebradillas, Florida Adentro, Hormigueros, Monacillo (Stevens).

MELIOLA PTERIDICOLA Stevens.

On *Adiantum latifolium*, Las Marías, Mayagüez (Stevens).

Adiantum sp., Mayagüez (Stevens).

Aneimia adiantifolia, Río Tanamá, Quebradillas, Dos Bocas (Stevens).

Aneimia spp., Dos Bocas (Stevens).

✓ MELIOLA PUIGGARII Speg.

On *Rubus* sp., El Alto de la Bandera, Maricao (Stevens).

MELIOLA QUADRISPINA Rac.

On *Ipomœa cathartica*, Las Marías (Stevens).

MELIOLA RECTANGULARIS Stevens.

On *Banisteria laurifolia*, Jayuya, Maricao, Utuado, Hormigueros, Mayagüez, Martín Peña. (Stevens).

Coccoloba laurifolia, Arecibo-Lares (Stevens).

MELIOLA RUDOLPHLE Stevens.

On *Rudolphia volubilis*, Monte Alegrillo, Maricao, Luquillo Forest, El Alto de la Bandera. Aibonito (Stevens).

MELIOLA SEPULTA Pat.

On *Avicennia nitida*, Martín Peña.

MELIOLA SERJANLE Stevens.

On *Serjania polyphylla*, Vega Baja, Florida Adentro, Arecibo-Lares, Cataño (Stevens).

J MELIOLA SMILACIS Stevens.

On *Smilax coriacea*, Manatí (Stevens).

Smilax sp., Algarrobo; Jájome Alto (Stevens).

MELOLA SOLANI Stevens.

On *Solanum jamaicensis*, Monte de Oro (Stevens).

MELIOLA STENOTAPHRI Stevens.

On *Paspalum plicatulum*, Río Piedras.

Stenotaphrum secundatum, Río Piedras; Manatí. Río Tanamá, Dos Bocas. Arecibo (Stevens).

MELIOLA TABERNÆMONTANÆ Speg.

On *Plumiera Krugii*, Maricao (Stevens).

Rauwolfia nitida, Martín Peña (Stevens).

Rauwolfia tetraphylla, Martín Peña.

Tabernamontana oppositifolia, Mayagüez, Hormigueros (Stevens).

MELIOLA TABERNÆMONTANÆ VAR. FORSTERONLE Stevens.

On *Forsteronia corymbosa*, Utuado (Stevens).

✓ *MELIOLA TECOMÆ* Stevens.

On *Tecoma pentaphylla*, Río Piedras: Martín Peña, Mayagüez.
Las Marías, Maricao (Stevens).

Tecoma sp., El Miradero, Las Marías, Mayagüez, Maricao.
Quebradillas, Vega Baja, Arecibo-Lares (Stevens).

MELIOLA TENUISSIMA Stevens.

On *Gouania lupuloides*, Camuy: Yauco, Villa Alba (Stevens).

MELIOLA THOUINLE Earle.

On *Allophylus crassincervis*, Quebradillas (Stevens).

Krugiodendron ferreum, Guayanilla, Río Tanamá, Quebradillas, Coamo (Stevens).

Thouinia striata, Vega Baja, Río Arecibo (Stevens) (21).

Winterana canella, Guayanilla, Mona Island (Stevens).

MELIOLA TORTUOSA Wint.

On *Piper medium*, Vega Baja (Stevens).

Piper peltatum, Río Piedras: Ponce (Heller): Mayagüez
(W. & O.).

Piper umbellatum, Espinosa: Utuado, Indiera Fría, Mayagüez, Lares, Añasco, Monte Alegriño, El Gigante, Jájome Alto, Dos Bocas, Las Marías, Río Tanamá, Maricao, Río Arecibo (Stevens) (21).

MELIOLA TORULOIDEA Stevens.

On *Cassia quinquadrangulata*, Jájome Alto, Maricao, Aibonito
(Stevens).

Inga laurina, Las Marías (Stevens): Maricao (W. & O.).

Inga vera, Mayagüez (W. & O.).

MELIOLA TRILOBA Wint.

On *Pilea parietaria*, Arecibo-Lares, Dos Bocas, Río Arecibo (Stevens).

✓ *MELIOLA TRIUMFETTE* Stevens.

On *Hibiscus tiliaceus*, Arecibo-Lares, Maricao, Dos Bocas (Stevens).

Triumfetta scmitriloba, Utuado, Indiera Fría (Stevens).

Triumfetta sp., Espinosa.

MELIOLA TUBERCULATA Stevens.

On undet. host, Vega Baja (Stevens).

MYRIOSTICTA PORTORICENSIS Pat.

On *Vigna repens*, Coll. N. Y. Bot. Garden. Probably *Dimerium grammodes*.

PARODIELLA PERISPORIOIDES (B. & C.) Speg.

See *Dimerium grammodes*.

PERISPORINA LANTANÆ Stevens.

On *Lantana camara*, Lares (Stevens) (82).

PERISPORIOPSIS WRIGHTII (B. & C.) Stevens.

On *Opuntia* sp., Mayagüez, Ponce (Stevens) (82).

✓ PERISPORIUM BROMELLÆ Stevens.

On *Bromelia pinguin*, Río Piedras, Naguabo, Camuy; Mayagüez, Manatí, Utuado, Santa Ana, Cataño, Vega Baja, Florida Adentro, Lajas, Hormigueros, Coamo, Maricao, Añasco (Stevens) (82).

PERISPORIUM PORTORICENSIS Stevens.

On *Calophyllum calaba*, Mayagüez, Vega Baja (Stevens) (82).

PERISPORIUM TRUNCATUM Stevens.

On *Inga laurina*, Maricao, Mayagüez, El Alto de la Bandera, Coamo (Stevens).

Inga vera, Maricao (Stevens) (82).

PSEUDOMELIOLA (?) COLLAPSA Earle.

On *Meliola torulosa* on *Piper peltatum*.

Meliola sp., on *Hyptis capitatum* (21).

MICROTHYRIACEÆ.

ASTERINA CORIACELLA Speg. (?).

On *Cestrum laurifolium*. Coll. N. Y. Bot. Garden.

ASTERINA (ASTERELLA) FUMAGINA Dear. & Barth.

On *Lasiacis Sloanei* (*Panicum latifolium*) (?), Maricao (Stevens) (18). This is apparently the same as *Dimeriella olyra* Stevens.

ASTERINA SIDÆ Earle.

On *Sida carpinifolia*, Porto Rico (Heller) (21).

ASTERINA TRILOBA Earle.

On *Croton discolor*, Ponce (Heller) (21).

MICROPELTIS ÆRUGINESCENS Rehm.

On *Rourea glabra*, Río Piedras (W. & O.).

MICROPELTIS LAGUNCULARIÆ Wint.

On *Laguncularia racemosa*, Mayagüez (Heller) (19).

MICROPELTIS LONGISPORA Earle.

On *Coffea arabica*, Porto Rico (Heller) (21).

MICROPELTIS MANTHLE (?).

On *Adiantum latifolium*, Mayagüez (W. & O.).

MICROTHYRIUM URBANI Bres.

On *Shæfferia frutescens*, Cabo Rojo (Sintenis) (76).

NECTRIACEÆ.

BORINQUENIA MICONIÆ Stevens.

On *Miconia lavigata*, Arecibo, Utuado (Stevens) (82).

CALONECTRIA ERUBESCENS (Roberge) Sacc.

On dead leaves, Naranjito, Vega Baja, Aibonito (Fink).

CREONECTRIA BAINII (Massee) Seaver.

On pods of *Theobroma cacao*, Mayagüez (Fawcett) (27).

CREONECTRIA BALANSÆ (Speg.) Seaver.

On dead wood, Río Piedras.

CREONECTRIA GRAMMICOSPORA (Ferd. & Winge) Seaver.

On dead bark of *Cajanus indicus*, Río Piedras.

CREONECTRIA OCHROLEUCA (Schw.) Seaver.

(*Nectria ochroleuca* Schw.)

On dead bark, Santana (Stevens) (82).

DEXTERIA PULCHELLA Stevens.

On *Paullinia pinnata*, Mayagüez (Stevens) (82).

GIBERELLA PULICARIS (Fries) Sacc.

On dead cane stalks, grass culms, Río Piedras, Carolina, Las Monjas, Guaynabo (48).

HYALOSPHERA MICONIÆ Stevens.

On *Miconia lavigata*, Arecibo, Utuado, Maricao, Aguas Buenas, Ponce, Yabucoa (Stevens) (82).

HYPONECTRIA PHASEOLI Stevens. In mss.

On *Vigna vexillata*, Porto Rico (Stevens).

MEGALONECTRIA PSEUDOTRICHIA (Schw.) Speg.

On dead wood and bark, particularly of *Cajanus indicus*, Río Piedras, Pueblo Viejo, Moca (72, 90).

NECTRIA EPISPHERA (Tode) Fries.

On dead wood, citrus twigs, and branches, often following *Corticium*, and on fruiting bodies of *Ustilina vulgaris*, Martín Peña, Bayamón, Río Piedras (89, 96).

NECTRIA FLAVOCILIATA Seaver.

On dead wood and dead cane stalks, Río Piedras, Vega Baja (48).

NECTRIA LAURENTIANA Marschal.

On dead and dying cane stalks, at times a wound parasite, Río Piedras, Carolina, Loíza, Las Monjas (48, 105).

NECTRIA RHYTIDOSPORA Pat.

On dead bark. Coll. N. Y. Bot. Garden.

NECTRIA SUFFULTA Berk. & Curt.

On stump of *Musa*, Río Piedras.

PLEONECTRIA MEGALONECTRIA Speg.

On dead and dying bark of *Cajanus indicus*, Espinosa.

SCOLECONECTRIA COCCICOLA (Ellis. & Ev.) Seaver.

(*Ophionectria coccicola* Ellis. & Ev.)

On various scale insects, on *Citrus* spp., particularly *Lepidosaphes beckii*, Río Piedras, Pueblo Viejo, Bayamón, Espinosa, Garrochales, Mayagüez (46, 96, 100).

SPHÆRODERMATELLA HELLERI (Earle) Seaver.

(*Melanospora* (?) *Helleri* Earle.)

On bark, Santurce (Heller) (19, 72, 73).

SPHÆROSTILBE COCCOPHILA (Desmaz.) Tul.

On various scale insects on *Citrus* spp., particularly *Lepidosaphes beckii*, Río Piedras, Pueblo Viejo, Bayamón, Vega Baja, Manatí, Espinosa, Garrochales, Mayagüez. Wide spread and always present in abundance (20, 46, 96, 100).

HYPOCREACEÆ.

BALANSIA HYPOXYLON (Peck) Atk.

(*Ephelis mexicana* Fries.)

(*Hypocrella hypoxylon* [Peck.] Sacc.)

On living stems of *Panicum tricanthum*, Río Piedras. Also reported from the Sintenis collection (76), on inflorescences of Gramineæ.

CHROMOCREA GELATINOSA (Tode) Seaver.

On dead cane stalks and debris, Río Piedras, Carolina (48).

CHROMOCREOPSIS STRIISPORA Stevenson.

On dead cane stalks, Gurabo (48).

CORDYCEPS BARBERI.

See *Isaria Barberi*.

CORDYCEPS DIPTERYGENA Berk. & Br.

On Drosophilid flies, particularly *Chrysomyia macellaria*, Río Piedras, Espinosa (94).

DOTHICHLÆ ARISTIDÆ Atkinson.

On *Aristida portoricensis*, Mayagüez (W. & O.). This fungus reported by Stevens (82) as *Balansia discoidea*.

DOTHICHLÆ ATRAMENTOSA (B. & C.) Atk.

On *Andropogon leucostachyus*, Las Marías (Stevens) (82).

Chloris petraea, Boquerón (W. & O.).

DOTHICHLÆ NIGRICANS (Speg.) Seaver.

(*Ephichlæ nigricans* Speg.)

On *Ichnanthus pallens*, Mayagüez, El Yunque (W. & O.). The same fungus reported by Stevens (82) as *Dothichlæ aristida*.

GLAZIELLA AURANTIACA (Berk. & Curt.) Sacc.

On dead wood, Mameyes.

HYPOCREA RUFA (Pers.) Fries.

On dead cane trash and dead wood, Río Piedras, Naguabo (48).

HYPOCRELLA TAMONEÆ Earle.

On living leaves of *Tamonea* sp. Collections N. Y. Bot. Garden (73, 74).

PODOSTROMA BREVIPES (Mont.) Seaver.

On dead wood, El Yunque.

SPERMOCEDIA STEVENSII Seaver.

(*Claviceps paspali* S. & H.)

On *Paspalum plicatulum*, Rosario, Ponce, Añasco, Cataño, Coamo, Mayagüez (Stevens) (82).

STILBOCREA HYPOCREOIDES (Kalchbr. & Cooke) Seaver.

On dead wood, Río Piedras, Espinosa, Bayamón.

USTILAGINOIDEA USAMBARENSIS P. Henn.

On *Panicum laxum*, Monte de Oro, El Alto de la Bandera (Stevens) (82).

DOTHIDIACEÆ.

AUERSWALDIA PALMICOLA Speg.

On *Acrista palmicola*, Adjuntas, El Gigante (Stevens) (38, 81)

MYRIOGENOSPORA BRESADOLEANA P. Henn.

On *Andropogon bicornis*, Río Piedras.

Axonopus compressus, Mayagüez (W. & O.).

Paspalum conjugatum, Sierra de Naguabo, Pueblo Viejo (81)

PHYLLACHORA ANDROPOGONIS (Schw.) Karst.¹

On *Paspalum millegrana*, Naguabo (Stevens) (34).

¹ Dr. C. R. Orton in studying the *Phyllachoras* on grasses has indicated a number of new species from the Porto Rican collections, and in particular finds that specimens determined as *P. andropogonis* and *P. graminis* are not to be referred to these species. Since, however, his studies are not complete, the specimens in question have been listed as published.

PHYLLACHORA CASSIÆ P. Henn.

On *Cassia fistula*, Río Piedras, Quebradillas.

PHYLLACHORA CORNUOSPORA Atk.

On *Paspalum virgatum*, Río Piedras.

PHYLLACHORA CYPERI Rehm.

On *Cyperus giganteus*, Mayagüez (W. & O.)

PHYLLACHORA GALACTIÆ Earle.

On *Galactia striata*, Río Piedras, Espinosa, Camuy.

Galactia tenuiflora, Coamo Springs (Cooke & Collins).

PHYLLACHORA GRAMINIS (Pers.) Fuckel.¹

On *Andropogon brevifolius*, Río Piedras.

Arthrostyloidium sarmentosum, Utuado (Stevens) (82).

Lasiacis sorghoidea, Jájome Alto (Stevens).

Panicum sp., Maricao (Stevens).

Paspalum conjugatum, Vega Baja, El Alto de la Bandera (Stevens) (82).

Paspalum virgatum, Utuado (Stevens) (82).

Paspalum sp., Río Piedras; Sabana Grande (Stevens) (34).

Valota insularis, Quebradillas, Vega Baja, Santa Ana, Coamo (Stevens) (82).

PHYLLACHORA GRATISSIMA Rehm.

On *Persea americana*, Jayuya (Stevens) (60).

PHYLLACHORA INCLUSA (B. & C.) Sacc.

On *Jacquinia Berterii*, Ponce (Heller).

PHYLLACHORA LUTEO-MACULATA (Schw.) Orton.

On *Andropogon leucostachys*, Río Piedras.

PHYLLACHORA MAYDIS Maubl.

On *Zea mays*, Arecibo, Vega Baja, Río Piedras (16, 17, 18, 90).

Given by Stevens and Dalby as *P. graminis*.

PHYLLACHORA MINUTA P. Henn.

On *Paritium tiliaceum*, Pueblo Viejo; Cataño (W. & O.).

PHYLLACHORA NITENS Garman.

On *Schlegelia brachyantha*, Maricao, Ponce, Monte Allegrillo, Río Grande, Preston's Ranch (Stevens) (34).

PHYLLACHORA PERFORANS (Rehm.) Sacc.

On *Securidaca virgata*, Río Piedras; Maricao, Rosario, Mayagüez (Stevens) (34, 82). Host reported erroneously by Garman as *Abrus precatorius*.

¹ Dr. C. R. Orton in studying the Phyllachoras on grasses has indicated a number of new species from the Porto Rican collections, and in particular finds that specimens determined as *P. andropogonis* and *P. graminis* are not to be referred to these species. Since, however, his studies are not complete, the specimens in question have been listed as published.

PHYLLACHORA PERIBEBUYENSIS Speg.

On *Heterotrichum cymosum*, Jayuya (Stevens); El Yunque (W. & O.).

Miconia lavigata, Río Piedras, Maricao, Consumo, Las Marías (Stevens).

Miconia Sintensi, Monte Alegrillo (Stevens).

Miconia sp., Río Piedras, Espinosa; Villa Alba, Maricao, Rosario (Stevens).

Tetrazygia elaeagnoides, Vega Baja, Espinosa; Barceloneta (W. & O.).

Tetrazygia sp., Santana (Stevens) (34).

PHYLLACHORA PUNCTA (Schw.) Orton.

On *Opilesmenus hirtellus*, Espinosa.

PHYLLACHORA RENEALMIÆ Rehm.

On *Alpinia antillarum*, Maricao, Monte Alegrillo, Utuado, Já-jome Alto, El Yunque (Stevens) (34).

PHYLLACHORA SCLERIÆ Rehm.

On *Scleria pterota*, Sierra de Naguabo, Espinosa, Río Piedras; Sabana Llana (Stevens) (82).

PHYLLACHORA SPHÆROSPERMA Winter.

On *Cenchrus echinatus*, Loíza, Campo Alegre; Vega Baja (Stevens) (34).

Cenchrus myosuroides, Mona Island (Stevens) (34).

SCIRRHIA LOPHODERMIOIDES Ellis & Ev.

On *Saccharum officinarum*, Río Piedras.

FIMETARIACEÆ.

SPORORMIA MINIMA Auersw.

On cow manure, Río Piedras.

SPHÆRIACEÆ.

BERTIA MORIFORMIS (Tode) De Not.

On dead wood, El Yunque (Heller).

HERPOTRICHIA ALBIDOSTOMA (Peck.) Sacc.

On rotten wood, Río Piedras.

HERPOTRICHIA DIFFUSA (Schw.) E. & E.

On coconut husks, Espinosa.

LASIOSPHÆRIA PEZIZULA (B. & C.) Sacc.

On dead bark, Dorado.

LIZONIA JACQUINIÆ Bri. & Har.

On *Jacquinia barbasco* (*J. armillaris*) (Sintenis) (76).

MELANOMMA NITIDULUM Bres.

Reported from the Sintenis collection (76).

PHÆOSPORA CACTICOLA Stevens.

On *Rhipsalis cassytha*, Cayey (Stevens) (82).

ROSELLINIA AQUILA (Fr.) d. Not.

On dead wood, Río Piedras, Bayamón, Martín Peña.

ROSELLINIA BUNODES B. & Br.

On *Coffea arabica*, Mayagüez (Brandes) (31). Also reported by Fawcett (31) as attacking *Acalypha mosaica*, *Graptophyllum pictum*, *Jambosa jambos*, *Panax plumatum*, *Peltiveria alliacea*, *Miconia* sp., *Piper* sp., and *Palicourea* sp.

ROSELLINIA PARAGUAYENSIS Stark.

On dead sugar-stalk, Río Piedras (48).

ROSELLINIA PULVERACEA (Ehrh.) Fuckel.

On dead sugar-cane stalks, Río Piedras.

ROSELLINIA SUBICULATA (Schw.) Sacc.

On dead wood. El Duque, Río Piedras, Martín Peña, Fajardo Garrochales.

ZIGNÆLLA ALGAPHILA Stevens. In mss.

On *Cephaeleuro virescens* on *Artocarpus incisa*, Porto Rico (Stevens).

CUCURBITARIACEÆ.

NITSCHKIA NERVINCOLA Rehm.

On *Gesneria albiflora*, Maricao (Brittin); Mayagüez (Stevens) (82).

OTTHIA PANICI Stevens.

On *Panicum marimum*, Jayuya. Naguabo (Stevens) (82).

CORYNELIACEÆ.

CORYNELIA OREOPHILA (Speg.) Starb.

On *Podocarpus coriaceus*, Maricao (W. & O.). This species is reported by Dr. Stevens (82) as *Corynelia clavata* (S). Sacc. var. *portoricensis* Stevens.

CORYNELIA PTERIDICOLA Stevens.

On *Campyloneurum* sp., Añasco (Stevens) (82).

LOPHIOSTOMATACEÆ.

PLATYSOMIUM INDURATUM Earle.

Host not known. Coll. N. Y. Bot. Garden (Underwood and Griggs).

MYCOSPIHERELLACEÆ.

GUIGNARDIA CEPHALARIE Aud. var. ALTERNANTHERE Sacc.

On *Alternanthera scssilis*, Río Piedras, Pueblo Viejo; Mayagüez, Las Marías. Utuado, Guayanilla (Stevens) (82).

GUIGNARDIA CLUSIE Stevens.

On *Clusia gundlachii*, Maricao (Stevens) (82).

GUIGNARDIA HELICTERES Stevens.

On *Helicteres jamaicensis*, Barceloneta (Stevens) (82).

GUIGNARDIA HETEROTRICHII Stevens.

On *Tetrotrichum cymosum*, Naguabo, Maricao, Villa Alba, Utuado (Stevens) (82).

GUIGNARDIA JUSTICIE Stevens. In mss.

On *Justicia verticillaris*, Porto Rico (Stevens).

GUIGNARDIA PIPERICOLA Stevens.

On *Piper marginatum*, Palo Seco; Lajas, Cabo Rojo (Stevens) (82).

Piper medium, Espinosa, Camuy; Vega Baja, Aguada, Trujillo Alto, St. Ana, Florida, Río Tanamá, Manatí, Peñuelas (Stevens) (82).

GUIGNARDIA PROMINENS Earle.

On *Aegiphila martinicense*, Santurce (Heller) (19).

GUIGNARDIA RYNCHOSPORÆ Stevens.

On *Rhynchospora cyperoides* Martín Peña (Stevens) (82).

GUIGNARDIA TETRAZYGIA Stevens. In mss.

On *Tetrazygia* sp., Porto Rico (Stevens).

MYCOSPIHERELLA AGGREGATA Schw.

On dead wood. Coll. N. Y. Bot. Garden.

MYCOSPIHERELLA ANTHURII Miles.

On *Anthurium acaule*, Point Cangrejos; Aguas Buenas, Monte Alegre, Yabucoa, Trujillo Alto, Rosario, Cataño, Bayamón, Cabo Rojo, Las Bocas (Stevens) (61).

MYCOSPIHERELLA CHRYSOBALANI Miles.

On *Chrysobalanus icacao*, Río Piedras (Stevens) (61).

MYCOSPIHERELLA CITRULLINA (C. O. Sm.) Gros.

On *Cucumis melo*, Río Piedras (94).

MYCOSPIHERELLA CLUSIE Stevens.

On *Clusia rosea*, Maricao, Lajas, Mayagüez, Utuado (Stevens) (82).

MYCOSPIHERELLA DIDYMOPANACIS Miles.

On *Didymopanax morototoni*, Río Piedras, Bayamón; Añasco, Utuado (Stevens) (61).

MYCOSPHAERELLA DUBIA Miles.

On *Solanum* sp. (?), Maricao (Stevens) (61).

MYCOSPHAERELLA FRAGARIÆ (Tul.) Lin.

On *Fragaria* sp., Río Piedras.

MYCOSPHAERELLA GUTTIFERÆ Miles.

On *Clusia gundlachii*, Maricao (Stevens) (61).

MYCOSPHAERELLA MACULIFORMIS (Pers.) Schw.

On *Inga vera*, Maricao (Stevens) (82).

MYCOSPHAERELLA MAXIMA Miles.

On unknown host, Maricao (Stevens) (61).

MYCOSPHAERELLA MAYDIS (Pass.)

On *Syntherisma sanguinale*, El Alto de la Bandera (Stevens) (82).

MYCOSPHAERELLA MUCUNÆ Stevens.

On *Mucuna pruriens*, Añasco (Stevens) (82).

✓ MYCOSPHAERELLA PALMÆ Miles.

On leaves of palms, Guánica (Stevens) (61).

MYCOSPHAERELLA PERSEÆ Miles.

On *Persea americana*, Pueblo Viejo, Río Piedras, Bayamón; Maricao, San Germán, Dos Bocas (Stevens) (60, 61).

MYCOSPHAERELLA TABEBULÆ Miles.

On *Tabebuia hæmantha*, Vega Baja, Mona Island (Stevens) (61).

MYCOSPHAERELLA TYROLENSIS Stevens. In mss.

On *Gymnogramma sulphurea*, Porto Rico (Stevens).

SPHAERELLA SACCHARI Speg.

On dead leaves of sugar-cane, Fajardo, Río Piedras (48, 105).

PLEOSPORACEÆ.

LEPTOSPHAERIA SACCHARI van Breda de H.

On *Saccharum officinarum*, Juncos, Río Piedras, Arecibo, Gurabo, Quebradillas (48, 82, 94, 105).

METASPHAERIA ABORTIVA Stevens.

On *Varronia alba*, Mayagüez, Maricao, Lares (Stevens) (82).

OPHIOPOLUS BARBATUS Pat. & Gaill.

On *Vitex* sp. (Stevens) (82).

PHYSALOSPORA ANDIRÆ Stevens.

On *Andira jamaicensis*, Sierra de Naguabo, Río Piedras; Camuy, Mayagüez, Vega Baja, San Sebastián, Maricao, Cabo Rojo, Coamo, Quebradillas, Hormigueros, San Germán, Lajas, Martín Peña, Peñuelas, Lares, El Yunque (Stevens) (82).

PHYSALOSPORA BAMBUSÆ (Rab.) Sacc.

On *Lasiacis sorghoidea*, El Yunque (Stevens) (82).

PHYSALOSPORA CAROPHYLLINICOLA Stevens.

On *Drymaria cordata* Jayuya (Stevens) (82).

PHYSALOSPORA LAGUNCULARIÆ Rehm.

On *Laguncularia racemosa*, Guánica. Boquerón (Stevens) (82).

PHYSALOSPORA TUCUMANENSIS Speg.

On dead sugar-cane stalks, Carolina (48).

GNOMONIACEÆ.

ANTHOSTOMELLA RHIZOMORPHÆ Stevens. In mss.

On *Rhizophora mangle*, Martín Peña.

GLOMERELLA CINGULATA (Stonem.) S. & V. S.

(*Glomerella psidii* Dela.).

(*Glæosporium rufomaculans* [Berk.] Thüm.)

(*Glæosporium vanilla* [Berk.] Cke.)

On *Citrus decumana*, (dead twigs), Río Piedras.

Psidium guajava, Mayagüez (Sheldon). Reported in Bull.
104, West Va. Agri. Exp. Station.

Vanilla planifolia, Mayagüez (Thomas).

LINOPODA TRICHOSTIGMÆ Stevens. In mss.

On *Trichostigma octandra*, Porto Rico (Stevens).

TRABUTIA PORTORICENSIS Stevens. In mss.

On *Coccolobis nivea*, Porto Rico (Stevens).

TRABUTIELLA CORDIÆ Stevens. In mss.

On *Cordia collococca*, Porto Rico (Stevens).

VALSACEÆ.

VALSA SACCHARI Stevenson. (In ed.)

On dead sugar-cane stalks, Barceloneta.

MELANCONIDACEÆ.

MELANCONIS SACCHARI Mass.

On *Saccharum officinarum*, Mayagüez (Stevens) (82). Undoubtedly a mistake for *Melanconium sacchari* Mass.

VALSARIA SUBTROPICA Speg.

On dead cane-stalk. Río Piedras (82).

DIATRYPACEÆ.

DIATRYPE STIGMA (Hoffm.) Fr.

On dead wood. Martín Peña.

MELOGRAMMATACEÆ.

ENDOTHIA LONGIROSTRIS Earle.

On dead bark, Río Piedras, Sierra de Naguabo; Santurce (Heller) (82). Cultural and comparative studies reported by Shear *et al.*, in Bul. 380, U. S. Dept. of Agri.

ENDOTHIA PARRYI (Earl.) Cooke.

On *Agave rigida* var. *sissalana*, Maricao (Stevens) (82).

Furcraea tuberosa (*Fourcroya hexapetala*), Maricao, Monte Allegrillo, Trujillo Alto (Stevens) (82).

MYRMÆCIUM CANNÆ Dearn. & Barth.

On *Canna indica*, Cabo Rojo (Stevens) (18).

MYRMÆCIUM RUBICOSUM (Tul.) Nits.

On dead bark, Naguabo.

XYLARIACEÆ.

DALDINIA CONCENTRICA (Bolt.) E. & E.

On dead wood, Garrochales, Palo Seco, Pueblo Viejo, Martín Peña, Espinosa (96). Reported from Humacao (Schwabe) (50) as *Sphaeria concentrica* Bolt.

HYPOXYLON ANNULATUM Mont.

On dead wood, Palo Seco.

HYPOXYLON FUSCOPURPUREA Berk.

On dead citrus branches, Campo Alegre, Bayamón (96).

HYPOXYLON PERFORATUM (Schw.) Fr.

On dead bamboo, Río Piedras.

HYPOXYLON RUBIGINOSUM Fr.

On dead wood, Río Piedras, Martín Peña.

KRETZSCHMARIA CENOPUS (Mont.) Karsten.

On dead wood, El Duque, Aibonito, Río Piedras.

KRETZSCHMARIA RUGOSA Earle.

On dead wood, Sierra de Naguabo, El Yunque.

NUMMULARIA BULLIARDII Tul.

On dead wood, or occasionally as a wound parasite of *Ficus nitida* and other trees, Río Piedras, Sierra de Naguabo, Martín Peña, El Yunque, Comerío (89).

NUMMULARIA GLYCERRHIZA B. & C.

On dead wood. Reported from the Sintenis collection (76). Probably is *N. Bulliardii*.

NUMMULARIA REPANDA Nitsch.

On dead wood, El Yunque.

PORONIA CEDIPUS Mont.

On manure, Río Piedras, Cortada.

USTILINA VULGARIS Tul.

On dead wood and on the larger roots and crowns of dying grapefruit trees (*Citrus decumana*), Río Piedras, Martín Peña, Palo Seco (89, 96). What is probably the same species is reported from the Schwanecke collection (50) as *Hypoxylon vulgare* Link.

XYLARIA APICULATA Cooke.

(*Xylaria arbuscula* Sacc.)

On dead wood. Río Piedras, Martín Peña, Espinosa, Bayamón (48, 54).

XYLARIA ARISTATA Mont.

On dead wood. Río Piedras.

XYLARIA AXIFERA Mont.

On dead wood, Río Piedras, El Yunque.

XYLARIA BERKELEYI Mont.

On dead wood, Sierra de Naguabo, El Yunque.

XYLARIA CLAVICULARIS Klotzsch.

On rotten wood, Naguabo. Reported from the Schwanecke collection (50). but nothing more is known about it.

XYLARIA CUBENSIS Mont.

On dead wood, Mameyes, Sierra de Naguabo. *Xylaria involuta* of the Sintenis collection (76) is referred (Lloyd) to this species.

XYLARIA EUGLOSSA Fries.

On dead wood, Río Piedras.

XYLARIA FIMBRIATA Lloyd.

On dead wood and soil, Río Piedras, Bayamón (55).

XYLARIA MULTIPLEX Fr.

On old pods of *Hymenæa courbaril*, Río Piedras.

XYLARIA OBOVATA Berk.

On dead wood, El Yunque.

XYLARIA OBTUSSISSIMA Berk.

Reported from the Sintenis collection (76).

XYLARIA PARTITA Lloyd.

On dead wood, Río Piedras (54).

XYLARIA POLYMORPHA (Pers.) Grev. (?).

On dead wood. Mayagüez (Stevens) (82).

XYLARIA PORTORICENSE Klotzsch.

Reported from both the Schwanecke and Sintenis collections (in the latter as forma *minor*), but nothing further is known about the species (50, 76).

XYLARIA SCHWEINITZII Berk.

On dead wood, Aibonito, Río Piedras.

XYLARIA SCOPIFORMIS Mont.

On dead wood, Río Piedras, Martín Peña; Utuado (Sintenis) (76). A specimen from Cabo Rojo reported by Stevens (82) as *X. hypoxylon* (L.) Grev. belongs here (54).

HYSTERIACEÆ.

LEMBOSIA AGAVES Earle.

On *Agave* sp., Cabo Rojo (Heller) (18).

LEMBOSIA COCCOLOBÆ Earle.

On *Coccoloba uvifera*, Cangrejos. First reported from the Heller collection (21).

LEMBOSIA DIFFUSA Wint.

On *Miconia* sp. Coll. N. Y. Bot. Garden (Heller).

TRIBLIDIUM RUFULUM Spreng.

On dead sticks, Martín Peña, Pueblo Viejo, Río Piedras, Espinosa, Garrochales, Carolina, Bayamón, Campo Alegre, El Duque (96).

PEZIZACEÆ.

COOKEINA SULCIPES (Berk.) O. Kuntze.

On dead and rotten wood, Río Piedras, Mameyes.

COOKEINA TETRASPORA Seaver.

On palm leaves, El Yunque.

COOKEINA TRICHOLOMA (Mont.) O. Kuntze.

On dead wood, Río Piedras.

LACHNEA CUBENSIS (B. & C.) Sacc.

On dead sugar-cane stalks and debris, Río Piedras (48).

PHILLIPSIA DOMINGENSIS Berk.

On dead wood, Río Piedras, Mameyes, Martín Peña.

ASCOBOLACEÆ.

ASCOBOLUS MAGNIFICUS Dodge.

On cow manure, Río Piedras.

ASCOBOLUS STERCORARIUS (Bull.) Rehm.

Fimicole. Col. N. Y. Bot. Garden.

ASCODESMIS PORCINA Seaver.

Fimicole, Mayagüez (Fawcett) (75).

ASCOPHANUS CARNEUS (P.) Boud.

On debris. Coll. N. Y. Bot. Garden.

ASCOPHANUS GRANULATUS (Bull.) Speg.

On debris, Aibonito, Mayagüez, El Yunque (Fink)

ASCOPHANUS TESTACEUS (Mong.) Phil.

On rotting leather, Bayamón.

SACCOLOBUS KERVERNI (Crow.) Boud.

Coll. N. Y. Bot. Garden.

SACCOLOBUS PORTORICENSIS Seaver.

Coll. N. Y. Bot. Garden.

HELOTIACEÆ.

HELOTIUM CITRINUM (Hedw.) Fr.

On dead wood. Coll. N. Y. Bot. Garden.

MOLLISIACEÆ.

TRICHOBELONIUM ALBOSUCCINEUM Rehm.

On dead leaves. Coll. N. Y. Bot. Garden.

PATELLARIACEÆ.

KARSCHIA LIGNYOTA (Fr.) Sacc.

On dead wood, Manatí (Fink).

LECANIDION CYANEUM (Cooke) Sacc.

On dead citrus twigs, Campo Alegre (96).

DERMATEACEÆ.

MIDOTIS HETEROMERA Mont.

On wood, Mt. Cienega (Sintenis) (76).

ORBILIA CHRYSOCOMA (Bull.) Sacc.

On dead wood. Coll. N. Y. Bot. Garden.

STICTIDACEÆ.

STICTIS FOLICOLA B. & C.

On dead leaves, Río Piedras.

STICTIS RADIATA Pers.

On dead citrus twigs, Campo Alegre, Sabana Llana, Espinosa,
Río Piedras (96).

BASIDIOMYCETES.

USTILAGINACEÆ.

CINTRACTIA AXICOLA (Berk.) Cornu.

On *Fimbristylis* sp., Quebradillas, Bayamón, Mayagüez (Stevens) (82).

Fimbristylis diphylla, Dorado, Río Piedras: El Yunque, San Juan, Quebradillas, Lares (Stevens) (82).

Fimbristylis ferruginea, Santurce (Stevens) (4).

CINTRACTIA AXICOLA MINOR Clinton.

On *Cyperus sphacelatus*, Campo Alegre, Naguabo; Río Piedras (W. & O.) (14).

CINTRACTIA LEUCODERMA (Berk.) P. Henn.

(*Cintractia Krugiana* P. Magnus) (76).

On *Rynchospora* sp., Río Piedras, Pueblo Viejo, Bayamón; Cataño, El Yunque, Manatí (Stevens) (82).

Rynchospora gigantea, Martín Peña; Manatí (Sintenis).

Rynchospora corymbosa, Pueblo Viejo, Mayagüez, Cataño (Stevens) (14, 76, 82).

CINTRACTIA LIMITATA Clinton.

On *Cyperus ligularis*, Mayagüez, San Juan (Clinton); Boquerón (Stevens) (14, 82).

CINTRACTIA UTRICULICOLA (P. Henn.) Clinton.

On *Rynchospora aurea*, Mayagüez (Stevens) (82).

Rynchospora corymbosa, Río Piedras; Mayagüez (Stevens) (14, 82).

MYKOSYRINX CISSI (D. C.) G. Beck.

(*Schræteria cissi* D. C.) (76).

On *Cissus acida*, Salinas, Cabo Rojo (Sintenis).

Cissus erosa, Maricao (Sintenis).

Cissus sicyoides (14).

SPHACELOTHECA PANICI-LEUCOPHÆI (Bref.) Clinton.

On *Valota insularis* (*Trichachne insularis*), Campo Alegre; Barceloneta, Boquerón (W. & O.); Coamo Springs (Stevens) (14, 82).

SPHACELOTHECA PASPALI-NOTATI (P. Henn.) Clinton.

On *Paspalum* sp., Río Piedras.

TOLYPOSPORELLA BRUNKII (E. & G.) Clinton.

On *Andropogon Bicornis*, El Yunque (W. & O.).

USTILAGO SEGETUM Dittm.

Reported from the Schwanecke Collection (50). Host not given.

USTILAGO AFFINIS E. & E.

On *Stenotaphrum secundatum*, Río Piedras, Campo Alegre, Cayey; Barceloneta (W. & O.); Arecibo, Bayamón, Punta Santiago (Stevens) (82).

USTILAGO ZEÆ (Beckm.) Unger.

On *Zea mays*, Garrochales, Río Piedras; San Germán (Stevens) (14, 82, 90, 94).

TILLETIACEÆ.

BURRILLIA ECHINODORI Clinton.

On *Echinodorus cordifolius*, Palo Seco; Guánica (Stevens) (82).

DOASSANSIA SINTENISII Bres.

Reported from the Sintenis collection (76), but said by Clinton (14) to be insect work only.

ENTYLOMA AUSTRALE Speg.

On *Physalis* sp. (14).

ENTYLOMA GUARANITICUM Speg.

On *Bidens leucantha*, Río Piedras, Palo Seco, Bayamón (14).

ENTYLOMA LOBELIÆ Farl.

On *Lobelia* sp. (14).

THECAPHORA PUSTULATA Clinton (n. sp.).

On *Bidens leucantha*, Camuy; Mayagüez (W. & O.).

UROCYSTIS CEPULÆ Frost.

On *Allium sepa*. Mentioned by Henricksen (36, 90). Occurrence in Porto Rico doubtful.

UREDINALES.¹

COLEOSPORIACEÆ.

✓ COLEOSPORIUM ELEPHANTOPODIS (Schw.) Thüm.

On *Elephantopus mollis*, Espinosa, Río Piedras, Naguabo; Maricao, Corozal, Yauco, Jájome Alto, Jayuya, Mayagüez, Dos Bocas, Santana (Stevens); Bayamón (Holway); Mayagüez (Heller) (1, 19).

✓ COLEOSPORIUM EUPATORII Arthur.

On *Eupatorium macrophyllum*, Garrochales. First report from Porto Rico.

¹The *Uredinales* of Porto Rico have been very completely dealt with by Dr. Arthur in his publications in *Mycologia* (3, 4), based on the collections of Dr. F. L. Stevens and those of Prof. H. H. Whetzel and Dr. E. W. Olive. The list given here is based upon these papers, with the addition of the localities of our collections and three previously unreported species. Citations to the papers by Dr. Arthur are omitted since practically all species are there included.

/ COLEOSPORIUM IPOMÆÆ (Schw.) Burr.

On *Ipomæa angustifolia*, Campo Alegre.

Ipomæa batatas, Río Piedras; Naguabo (Stevens); Barceloneta, El Yunque (W. & O.)² (6, 81, 90, 94).

Ipomæa littoralis, San Juan (Holway).

Ipomæa nil, Guayanilla (Stevens).

Ipomæa rubra, Río Piedras; El Yunque (W. & O.).

Ipomæa stolonifera, Santurce; Vieques (Shafer) (102).

Jacquemontia tamnifolia, Río Piedras; Añasco (W. & O.).

Quamoclit coccinea, Vieques (Shafer).

/ COLEOSPORIUM PLUMIERÆ Pat.

On *Plumiera alba*, Guánica (W. & O.).

Plumiera Krugii, Maricao, Monte Alegrillo (Stevens).

Plumiera obtusa, Mona Island (Stevens) (12).

UREDINACEÆ.

CEROTELIUM CANAVALLE Arth.

On *Canavali* sp., Río Piedras, Garrochales, Espinosa, Campo Alegre (1, 94).

Canavali ensiformis, Mayagüez (Clinton); Manatí (Stevens); Barceloneta (W. & O.).

Canavali gladiata, Mayagüez (Thomas); Río Piedras (Stevens) (82).

/ KUEHNEOLA FICI (Cast.) But.

On *Carica papaya*, reported from the Whetzel and Olive collection, but an error. The fungus on this host is *Pucciniopsis carica* Earle.

Ficus carica, Naguabo; San Juan (Earle) (1, 81, 94).

Ficus crassinervia, El Yunque (W. & O.).

Ficus levigata, Santurce, Vega Baja, Mona Island, Cabo Rojo, Dos Bocas (Stevens); Barceloneta (W. & O.).

Ficus lentiginosa, Mayagüez, Yauco (W. & O.).

Ficus sp., Jayuya (Stevens).

KUEHNEOLA GOSSYPHII (Lagerh.) Arth.

On *Gossypium barbadense*, Garrochales, Trujillo Alto; Isabela, Mona Island (Stevens) (12, 20, 81).

Gossypium brasiliense, Dos Bocas (Stevens).

Gossypium hirsutum, Mayagüez (Earle); Añasco, Yauco, Barceloneta (W. & O.) (1).

Gossypium sp., Río Piedras, (W. & O.).

² Whetzel and Olive.

KUEHNEOLA MALVICOLA (Speg.) Arth.

On *Malache scabra*, Martín Peña (W. & O.).

MILEZIA COLUMBIENSIS (Dietel) Arth.

On *Nephrolepis rivularis*, Agucaltaria (Stevens).

OLIVEA CAPITULIFORMIS (P. Henn.) Arth.

(*Uredo capituliformis* P. Henn.)

On *Alchornea latifolia*, Naguabo; El Yunque (W. & O.); Preston's Ranch, Luquillo (Stevens).

OLIVEA PETITILÆ Arth.

On *Petitia domingensis*, Maricao (W. & O.).

PHYSOPELLA CONCORDS Arthur.

(*Uredo concors* Arthur.)

On *Dolichos lablab*, Bayamón; El Yunque (W. & O.); Jayuya (Stevens).

Phaseolus lunatus, Bayamón, Mayagüez (94).

Teramnus uncinatus, Jayuya (Stevens).

PHYSOPELLA MEIBOMIÆ Arth.

On *Meibomia supina*, Añasco, Río Tanamá (W. & O.).

PHYSOPELLA VITIS (Thüm) Arth.

On *Vitis vinifera*, Pastillo Springs, Mayagüez (Stevens); Maricao (W. & O.) (81).

SCHROETERIASTER FENESTRALA Arth.

(*Uredo fenestrala* Arth.)

On *Phyllanthus distichus*, Sabana Llana; Mayagüez, Guánica (W. & O.).

Phyllanthus grandifolius, Bayamón, Villa Alba, Martín Peña (Stevens).

Phyllanthus niruri, Río Piedras.

ÆCIDIACEÆ (PUCCINIACEÆ).

ARGOMYCES INSULANUS Arth.

On *Vernonia albicaulis*, Dos Bocas (Stevens).

Vernonia longifolia, Villa Alba (Stevens).

ARGOMYCES VERNONIÆ Arth.

On *Vernonia albicaulis*, Bandera (Stevens).

Vernonia borinquensis, Consumo, Jájome Alto, El Gigante (Stevens); Cayey (Holway); Maricao (W. & O.) (1).

Vernonia phyllostachya, Cabo Rojo (Stevens); Barceloneta (W. & O.).

BOTRYORHIZA HIPPOCRATEA W. & O.

On *Hippocratea volubilis*, Río Piedras, Espinosa, Campo Alegre; Mayagüez, Barceloneta, El Yunque (W. & O.); Ciales, Rosario, Maricao, Vega Baja, San Germán, Luquillo, Joyuda (Stevens) (71, 82).

ENDOPHYLLUM CIRCUMSCRIPTUM (Schw.) W. & O.

(*Aecidium circumscriptum* Schw.)

On *Cissus sicyoides*, Río Piedras, Comerío, Pueblo Viejo, Camuy, Guaynabo; Mayagüez, San Germán, Luquillo, Corozal, Manatí, Aguada, Aguadilla, Jájome Alto, Guayanilla, Jayuya, El Gigante, Cabo Rojo, Dos Bocas, Naguabo (Stevens); Maricao, Río Tanamá, Coamo (W. & O.) (71).

ENDOPHYLLUM DECOLORATUM (Schw.) W. & O.

(*Aecidium decoloratum* Schw.)

On *Clibadium erosum*, Jájome Alto (Stevens); El Yunque (W. & O.) (71).

ENDOPHYLLUM STACHYTARPHETÆ (Henn.) W. & O.

On *Valerianodes cayennensis*, Espinosa, Río Piedras (71).

ENDOPHYLLUM WEDELLÆ (Earle) W. & O.

(*Aecidium wedellæ* Earle.)

On *Wedelia trilobata*, Cataño, Trujillo Alto, Río Piedras, Campo Alegre; Mayagüez, Cabo Rojo, Utuado, Maricao, Santana, El Gigante (Stevens); Barceloneta (W. & O.) (19, 71).

ENDOPHYLLOIDES PORTORICENSIS W. & O.

(*Aecidium expansum* Diet.)

On *Mikania cordifolia*, Naguabo; Coamo Springs, Mayagüez, Yauco, Monte de Oro, Lares, Jájome Alto, Dos Bocas, Villa Alba (Stevens); Maricao, San Germán, El Duque (W. & O.).

Mikania odoratissima, El Yunque, El Duque (W. & O.) (71).

HEMILEIA VASTATRIX Berk. & Br.

Said to have been introduced once on *Coffea arabica* (1, 81), but eradicated.

PROSPODIUM APPENDICULATUM (Wint.) Arth.

On *Stenolobium stans*, Hormigueros (Stevens); Santurce (W. & O.).

PROSPODIUM PLAGIOPUS (Mont.) Arth.

On *Tecoma pentaphylla*, Añasco, Río Piedras (W. & O.).

PUCCINIA ANGUSTATOIDES Stone.

On *Rynchospora aurea*, Mayagüez (Clinton).

Rynchospora corymbosa, Pueblo Viejo; Mayagüez (W. & O.).

Rynchospora cyperoides, El Yunque, Cataño (W. & O.).

PUCCINIA ARECHAVELATÆ Speg.

On *Cardiospermum halicacabum*, Guánica (Sintenis) (76).

Cardiospermum microcarpum, Santana, Bayamón; Quebradillas, Desecheo (Stevens); San Juan (Holway); Fajardo, Maricao (W. & O.).

PUCCINIA BLECHI Lagerh.

On *Blechnum Brownii*, Río Piedras, Sierra de Naguabo; Mayagüez (Stevens).

PUCCINIA CAMELIÆ (Mayr) Arthur.

On *Chaetochloa setosa*, Mona Island (Stevens) (12).

PUCCINIA CANALICULATA (Schw.) Lagerh.

On *Cyperus articulatus*, Naguabo.

Cyperus cayennensis, Mayagüez (Clinton).

Cyperus distans, Porto Rico (Stevens).

Cyperus ferax, Río Piedras; Naguabo (Olive).

Cyperus giganteus, Mayagüez (W. & O.).

Cyperus laevigatus, Guánica (Stevens); Mayagüez (W. & O.).

Cyperus odoratus, San José, Río Piedras (Stevens); Martín Peña, Naguabo (W. & O.).

Cyperus polystachus, Cataño (Heller).

Cyperus radiatus, Canóvanas, Pueblo Viejo; Mayagüez (Stevens); Naguabo (W. & O.).

Cyperus reticulatus, Naguabo (W. & O.).

Cyperus spathcelatus, Espinosa, Sabana Llana, Río Piedras; Mayagüez, La Carmelita (Clinton); Campo Alegre, Cataño (W. & O.).

Cyperus surinamensis, Bayamón, Martín Peña; Añasco (Heller); Naguabo (Olive).

Cyperus sp., Villa Alba (Stevens).

Kyllingia brevifolia, Martín Peña (W. & O.).

Kyllingia pumila, Pueblo Viejo, Río Piedras; Añasco, El Yunque (W. & O.).

PUCCINIA CANNÆ (Wint.) P. Henn.

On *Calathea lutea*, Mayagüez (Stevens) (81).

Canna coccinea, Mameyes (Stevens); Maricao (W. & O.).

Canna glauca, Cabo Rojo (Stevens).

PUCCINIA CANNÆ (Wint.) P. Henn.—*Continued.*

On *Canna* sp., Espinosa, Naguabo, Campo Alegre, Río Piedras, Santurce, Corozal, Mayagüez, Añasco, Rosario (Stevens); Barceloneta (W. & O.).

Thalia geniculata, Añasco, Mayagüez (Stevens).

PUCCINIA CENCHRI Diet. & Holw.

On *Cenchrus carolinianus*, Camuy (Stevens).

Cenchrus echinatus, Guánica, Mona Island (Stevens); Mayagüez, Boquerón, Yauco, San Germán, Barceloneta, Río Tanamá (W. & O.) (12).

Cenchrus viridis, Campo Alegre; Guánica, Mona Island, Guayama (Stevens).

PUCCINIA CLADII Ell. & Tracy.

On *Mariscus jamaicensis*, Martín Peña (W. & O.).

PUCCINIA CONCRESCENS E. & E.

On *Asclepias curassavica*, Espinosa, Ciales; Vega Baja, Aibonito, Manatí, Jájome Alto (Stevens); Comerío (Holway); Maricao (W. & O.) (1).

Asclepias nivea, Maricao (W. & O.).

PUCCINIA CORDIÆ Arth.

On *Cordia alliodora*, Ponce (Holway).

PUCCINIA CRASSIPES Berk. & Curt.

On *Ipomœa triloba*, Cortada, Mona Island (Stevens) (12).

PUCCINIA CUTICULOSA (Ell. & Ev.) Arth.

On *Cydista æquinotialis*, Martín Peña (W. & O.).

PUCCINIA CYNODONTIS De Lac.

On *Capriola dactylon*, Río Piedras; Mayagüez (Stevens); Naguabo (W. & O.).

PUCCINIA DEFORMATA Berk. & Curt.

On *Olyra latifolia*, San Germán (Stevens).

PUCCINIA ELEOCHARIDIS Arth.

On *Eleocharis capitata*, Martín Peña; Laguna San José (Stevens); Mayagüez (W. & O.).

Eleocharis cellulosa, Santurce (Stevens).

Eleocharis flaccida, Bandera (Stevens).

Eleocharis geniculata, Naguabo; Mayagüez (Stevens); Añasco (Heller) (19).

Eleocharis interstincta, Mayagüez (Stevens).

Eleocharis mutata, Guanajibo (Stevens); Martín Peña (W. & O.).

PUCCINIA ELEOCHARIDIS Arth.—*Continued*.

On *Eleocharis* sp., Cataño (Stevens); Mayagüez (Heller, Clinton).

PUCCINIA EUPHORBLÆ P. Henn.

On *Aklema petiolaris*, Mona Island (Stevens) (12).

PUCCINIA FALLACIOSA Arth.

(*Uredo fallaciosa* Arthur.)

On *Palicourea crocea*, Mayagüez, Maricao (W. & O.).

Palicourea riparia, El Yunque (W. & O.).

Psychotria patens, Maricao, Ponce (Stevens).

PUCCINIA FARINACEA Long.

On *Salvia coccinea*, El Gigante (Stevens); Mayagüez, Maricao (W. & O.).

PUCCINIA FIMBRISTYLIDIS Arth.

On *Fimbristylis diphylla*, Río Piedras; Ponce (Stevens); Barceloneta, Campo Alegre (W. & O.).

Fimbristylis ferruginea, Martín Peña; Joyuda, Santurce (Stevens).

Fimbristylis milacea, Río Piedras.

Fimbristylis sp., Mayagüez (Clinton).

PUCCINIA GOUANLÆ Holw.

On *Gouania lupuloides*, Rosario, Yauco, Cabo Rojo (Stevens); Mayagüez (Holway).

Gouania polygama, Mayagüez, Rosario, Lares, Aguadilla, San Germán (Stevens); Añasco (W. & O.).

PUCCINIA HELICONIÆ (Deit.) Arth.

(*Uredo heliconiæ* Diet.)

On *Bihai borinquena*, El Yunque (W. & O.). The new combination made by Dr. Arthur in Bul. Tor. Bot. Club, v. 75, no. 4, April 1918, pp. 144-5.

PUCCINIA HETEROSPORA B. & C.

(*Uromyces pavoniæ* Arth.)

On *Abutilon hirtum*, Guánica (Stevens).

Abutilon indicum, Peñuelas, Tallaboa, Coamo (Sintenis) (76).

Malache scabra, Mayagüez, Jayuya (Underwood).

Sida cordifolia, Cabo Rojo (Sintenis) (76).

Sida glutinosa, Villa Alba (Stevens).

Sida hederifolia, Mayagüez (W. & O.).

Sida humilis, Martín Peña; Boquerón (Stevens); Vieques (Shafer); Yauco (W. & O.); Guánica (Sintenis) (76).

PUCCINIA HETEROSPORA B. & C.—*Continued.*

On *Sida procumbens*, Guánica, Desecheo (Stevens).

Sida spinosa, Guayama (Stevens).

Sida urens, Garrochales, Río Piedras; Guayanilla, Coamo Springs, Vega Baja, Yauco, Maricao, Rosario, Vega Alta, Ponce, Aguada, El Gigante, Mayagüez (Stevens); Añasco, Boquerón (W. & O.).

Wissadula periplocifolia, Coamo Springs, Guánica (Stevens).

PUCCINIA HUBERI P. Henn.

On *Panicum fasciculatum*, Vega Baja; Río Tanamá (Stevens); Barceloneta (W. & O.).

Panicum trichoides, Aibonito, Río Piedras; Villa Alba, Maricao, Adjuntas, Jayuya (Stevens); La Carmelita (Clinton); Mayagüez, Río Tanamá (W. & O.).

Panicum utowaneum, Mona Island (82).

PUCCINIA HYDROCOTYLES (Link.) Cook.

On *Hydrocotyle australis*, Pueblo Viejo.

Hydrocotyle umbellata, Mayagüez, Yauco (W. & O.).

PUCCINIA HYPTIDIS (M. A. Curt.) Tracy & Earle.

On *Hyptis capitata*, Río Piedras, Mayagüez; Bayamón (Holloway); Maricao (W. & O.); Villa Alba, Coamo Springs, Vega Baja, Añasco, Rosario, Quebradillas, Monte de Oro, Lares, El Gigante (Stevens).

PUCCINIA INFLATA Arth.

On *Stigmaphyllon lingulatum*, Santurce, Mayagüez; Ponce (Holloway); Desecheo, Boquerón, Guánica, Coamo Springs, Mona Island (Stevens); Yauco, Fajardo, Coamo (W. & O.) (12).

PUCCINIA INSITITIA Arth.

On *Hyptis lantanifolium*, Aibonito (Stevens); Maricao (W. & O.).

PUCCINIA LANTANÆ Farl.

On *Lantana camara*, Guánica, Lares, Guayanilla (Stevens).

Lantana involucrata, Quebradillas; Boquerón, Arecibo, Quebradillas, San Germán, Mona Island (Stevens); Yauco (W. & O.).

PUCCINIA LATERITIA Berk. & Curt.

On *Borreria laevis*, Río Piedras, Canóvanas; Mayagüez (Clinton); Vega Baja, Cabo Rojo, Coamo Springs, San Sebastián (Stevens).

PUCCINIA LATERITIA Berk & Curt.—*Continued.*

On *Borreria verticillata*, Río Piedras; Mayagüez, Boquerón, Bayamón, Indiera Fría, Cataño, Utuado, Lares, Aguada, Quebradillas (Stevens); Maricao, San Germán, Barceloneta (W. & O.).

Diodia littoralis, Boquerón (W. & O.).

Diodia maritima, Palo Seco, Cataño; Mayagüez (Stevens), Santurce (W. & O.).

Diodia rigida, Campo Alegre, Espinosa, Garrochales, Camuy, Naguabo; Manatí, Río Piedras (Stevens); Mayagüez, Barceloneta (W. & O.).

Ernodea littoralis, Boquerón, Mona Island (Stevens) (12).

Mitracarpus portoricensis, Guánica (Stevens).

Spermacoce riparia, Aguadilla (Stevens).

Spermacoce tenuior, Campo Alegre; Hormigueros, Guánica, Coamo Springs, Cabo Rojo, San Germán (Stevens); Vieques (Shafer) (102).

PUCCINIA LEONOTIDIS (P. Henn.) Arthur.

On *Leonotis nepetafolia*, Río Piedras, Espinosa; Yabucoa, Coamo Springs, Hormigueros, Bayamón, Lares, Guayama, Guayanilla (Stevens); Ponce (Holway); Mayagüez, Yauco, Boquerón, Barceloneta (W. & O.).

PUCCINIA LEVIS (Sacc. & Bizz.) Mag.

On *Paspalum fimbriatum*, Cabo Rojo (Stevens); Yauco (W. & O.).

Paspalum millegrana, Campo Alegre (W. & O.).

Paspalum plicatulum, Río Piedras; Vega Baja (Stevens).

Rytidix granularis, Rosario (Stevens); Maricao (Sintenis) (76).

PUCCINIA LITHOSPERMI Ell. & Kellerm.

On *Evolvulus nummularius*, Mayagüez. Añasco (W. & O.).

PUCCINIA MACROPODA Speg.

On *Iresine elatior*, Desecheo (Stevens).

PUCCINIA MEDELLINENSIS Mayor.

On *Hyptis atrorubens*, Río Piedras, Espinosa; Santurce (Stevens); Martín Peña, Naguabo (W. & O.).

Hyptis pectinatum, Río Piedras; Villa Alba, Coamo Springs, Corozal, Mayagüez, Rosario, Lares, Cabo Rojo (Stevens); Maricao, Yauco (W. & O.) (1).

PUCCINIA MEDELLINENSIS Mayor.—*Continued.*

On *Hyptis suaveolens*, Vega Baja; Mayagüez, Ponce, Aguada, Guayama, Guayanilla (Stevens); La Carmelita (Clinton); Aibonito (Holway); Añasco (W. & O.).

PUCCINIA OBLIQUA Berk. & Curt.

On *Metastelma lineare*, Espinosa; Barros (Stevens); Maricao (W. & O.).

Metastelma parviflorum, Vega Baja, Quebradillas (Stevens); Mayagüez (W. & O.).

PUCCINIA ORMOSIÆ Arth.

On *Ormosia Krugii*, Sierra de Naguabo; El Yunque (W. & O.).

PUCCINIA POLYGONI-AMPHIBII Pers.

On *Persicaria portoricensis*, Río Piedras.

Persicaria punctata, Sabana Llana; Mayagüez, Coamo (W. & O.).

PUCCINIA PSIDII Wint.

On *Jambos jambos*, Consumo, Maricao, Río Piedras, Barros, Villa Alba, Monte de Oro, Jájome Alto, El Gigante (Stevens).

Psidium guayava, Villa Alba (Stevens).

PUCCINIA PURPUREA Cooke.

On *Holcus halepensis*, Palo Seco, Sabana Llana, Vega Baja.

Holcus sorghum, Patillas, Mayagüez, Río Piedras, Ensenada, Trujillo Alto; La Carmelita (Clinton) (94).

Holcus sorghum var. *sudanensis*, Río Piedras, Trujillo Alto; Mayagüez (W. & O.) (94).

PUCCINIA RIVINÆ (Berk. & Curt.) Speg.

On *Rivina humilis*, Desecheo (Stevens); Yauco (W. & O.); Fajardo (Sintenis) (76).

Trichostigma octandrum, Yauco, Coamo (W. & O.).

PUCCINIA ROSEA (Diet. & Holw.) Arth.

On *Ageratum conyzoides*, Villa Alba, Utuado, Monte Allegrillo (Stevens); Yauco (W. & O.).

Eupatorium polyodon, Barros (Stevens).

PUCCINIA SALVICOLA Diet. & Holw.

On *Salvia occidentalis*, Camuy, Palo Seco; Mayagüez, Corozal, Aguada (Stevens); Caguas (Heller); La Carmelita (Clinton); Ponce (Holway); Maricao, Yauco (W. & O.).

PUCCINIA SCIRPI Dc.

On *Scirpus lacustris*, Guánica (Heller).

PUCCINIA SCLERLE (Paz.) Arth.

(Accidium passifloricola P. Henn.)

On *Scleria cubensis*, Maricao (W. & O.).*Scleria pterota*, Mayagüez, Maricao, El Yunque, Naguabo (W. & O.).*Passiflora rubra*, Mayagüez (Stevens); Maricao (W. & O.) (97).

PUCCINIA SCLERICOLA Arth.

On *Scleria hirtella*, Río Piedras.*Scleria* sp., Naguabo (Stevens).

PUCCINIA SMILACIS Schw.

On *Smilax domingensis*, Maricao (W. & O.).

PUCCINIA SPEGAZZINI Det.

On *Mikania scandens*, Mayagüez (W. & O.).

PUCCINIA SUBSTRIATA.

(Accidium tubulosum Pat. & Gaill.)

On *Chatochloa geniculata*, Río Piedras.*Eriochloa subglabra*, Río Piedras, Mayagüez.*Ichnanthus pallens*, Mayagüez, El Yunque (W. & O.);*Paspalum glabrum*, Vega Baja (Stevens).*Paspalum orbiculatum*, Monte de Oro (Stevens).*Paspalum paniculatum*, Naguabo, Río Piedras; Mayagüez, Monte Alegriño (Stevens); Maricao, San Germán (W. & O.).*Paspalum portoricensis*, Vega Baja.*Paspalum secanis*, Campo Alegre; Bayamón (Holway).*Syntherisma digitata*, Río Piedras; Barceloneta, El Duque (W. & O.).*Valota insularis*, Vega Baja, Campo Alegre; Boquerón, San Germán (W. & O.).*Solanum torvum*, Río Piedras, Trujillo Alto, Vega Baja; Mayagüez (Heller); San Juan (Holway); Corozal, Yauco, Rosario, El Gigante, Maricao, Lares, Jájome Alto, Monte de Oro, Cayey, Jayuya, Cabo Rojo (Stevens); Utuado (W. & O.) (97).

PUCCINIA SYNEDRELLE P. Henn.

On *Eleutheranthera ruderalis*, Carolina, Río Piedras; Mayagüez, Aguada (Stevens).*Emilia sonchifolia*, Bayamón, Río Piedras, Ponce, Espinosa; Hormigueros, Guayama, Yauco, San Germán (Stevens); Mayagüez, Maricao, Añasco (W. & O.).

PUCCINIA SYNEDRELLÆ P. Henn.—Continued.

On *Neurolana lobata*, Florida Adentro (Stevens).

Synedrella nodiflora, Río Piedras, Trujillo Alto; Barros, Caguas, Cabo Rojo, Santa Catalina, Yauco, Isabela, Rosario, Alegrillo, Lares, San Sebastián, Guayama, Monte de Oro, Jácome Alto, Utuado, Guayanilla (Stevens); Mayagüez, El Duque (W. & O.).

PUCCINIA TAGETICOLA Diet. & Holw.

On *Tagetes erecta*, Maricao (W. & O.).

Tagetes patula, Maricao (Stevens).

PUCCINIA URBANIANA P. Henn.

On *Valerianodes cayennensis*, Santurce.

Valerianodes jamaicensis, Río Piedras, Camuy, Campo Alegre, Naguabo, Añasco; Santurce, Vega Baja, Manatí, Guayama, Dos Bocas (Stevens); San Juan (Earle); Mayagüez (Clinton); Boquerón, San Germán, Barceloneta, Fajardo, Campo Alegre (W. & O.).

Valerianodes strigosa, Cabo Rojo, Mona Island (Stevens); Coamo, Mayagüez (W. & O.).

PUCCINIA XANTHII Schw.

On *Xanthium longirostre*, Santurce.

PUCCINIA ZORNIE (Diet.) McAlp.

On *Zornia diphylla*, Río Piedras; Mayagüez (W. & O.).

PUCCINIOSIRA PALLIDULA (Speg.) Lagerh.

On *Triumfetta lappula*, Ponce (Heller) (1).

Triumfetta rhombocidea, Bayamón; Santurce. Aguada, Mayagüez (Stevens).

Triumfetta semitriloba, Mayagüez, Maricao, Yauco (W. & O.).

Triumfetta sp., Río Piedras, Pueblo Viejo, Espinosa; Villa Alba, Mayagüez, Bayamón, Aibonito, Maricao, Rosario, El Gigante, Dos Bocas (Stevens).

✓ RAVENELIA CÆSALPINIÆ Arth.

On *Mimosa ceratonia*, Río Piedras; Bayamón, Vega Baja, Monte Alegrillo, Santa Catalina, Cabo Rojo, Indiera Fría, Aibonito, Vega Alta, San Sebastián, Lares, Manatí, Luquillo Forest, San Germán, El Gigante, Naguabo (Stevens); Mayagüez, Maricao, Barceloneta (W. & O.) (1).

RAVENELIA CASSIÆCOLA Atks.

On *Chamaecrista eschynomene*, El Gigante (Stevens).

Chamaecrista glandulosa, Vega Baja, Trujillo Alto.

RAVENELIA CAULICOLA Arth.

On *Cracca cinerea*, Cataño, Santuree; Quebradillas, Desecheo (Stevens).

RAVENELIA CEBIL Speg.

On *Piptadenia peregrina*, Peñuelas (Stevens).

RAVENELIA INDIGOFERÆ Tranz.

On *Indigofera suffruticosa*, Cataño, Espinosa; Boquerón, Bayamón, Jayuya, Mayagüez, Aguada (Stevens); Añasco, Yauco, Barceloneta, Naguabo (W. & O.).

RAVENELIA HUMPHREYANA P. Henn.

On *Cæsalpinia pulcherrima*, Río Piedras (94).

RAVENELIA INGÆ (P. Henn.) Arthur.

On *Inga laurina*, Maricao, El Yunque (W. & O.).

Inga vera, Monte Montosa, Monte Alegrillo (Stevens); Ponce (Barret) (1).

RAVENELIA PORTORICENSIS Arth.

On *Cassia emarginata*, Ponce (Heller) (1).

RAVENELIA SILIQUÆ Long.

On *Vachellia Farnesiana*, Yauco, Coamo (W. & O.).

✓ RAVENELIA STEVENSII Arth.

On *Acacia riparia*, Guayanilla, Vega Baja, Peñuelas (Stevens); Coamo (W. & O.).

RAVENELIA WHETZELII Arth.

On *Inga vera*, Maricao, Mayagüez (W. & O.).

TRANZSCHELIA PUNCTATA (Pers.) Arth.

On *Amygdalus persica*, Naguabo; Mayagüez (Earle) (1, 94).

UROMYCES APPENDICULATUS (Pers.) Fries.

On *Phaseolus adenanthus*, Río Piedras; Vega Baja (Stevens); Caguas (Holway); Arecibo (Clinton); Mayagüez, Barceloneta (W. & O.).

Phaseolus lathyroides, Maricao (W. & O.).

Phaseolus vulgaris, Camuy, Barceloneta, Río Piedras; Cabo Rojo (Stevens); Mayagüez (Clinton, Earle); Maricao (W. & O.) (2, 20, 90, 94).

Vigna repens, Río Piedras; Arecibo (Stevens); Mayagüez (W. & O.).

Vigna vexillata, Mayagüez (Stevens).

UROMYCES BIDENTICOLA (P. Henn.) Arth.

On *Bidens leucantha*, Pueblo Viejo, Palo Seco, Vega Baja, Espinosa, Fajardo, Naguabo; Santurce, Aibonito, Añasco, Mayagüez, Monte Alegrillo, Lares, Aguada, Dos Bocas (Stevens); Yauco, Hormigueros, Barceloneta (W. & O.).

Bidens pilosa, Arecibo-Lares, Río Piedras, Río Tanamá, Maricao (Stevens); Boquerón, San Germán (W. & O.).

Cosmos caudatus, Barros, Jayuya (Stevens).

UROMYCES BIDENTIS Lagerh.

(*Uromyces densus* Arthur.)

On *Bidens pilosa*, Ponce (Stevens); Maricao (W. & O.).

UROMYCES CARYOPHYLLINUS (Schränk.) Wint.

On *Dianthus* sp., San Juan (94).

UROMYCES CESTRI Mont.

On *Cestrum laurifolium*, Martín Peña, Camuy; Cabo Rojo, Monte Alegrillo, Quebradillas, San Germán, Arecibo-Lares Road (Stevens); Fajardo, Campo Alegre (W. & O.).

Cestrum macrophyllum, El Duque, Barros, Maricao, Ponce, Monte Alegrillo, Lares, Luquillo Forest, Monte de Oro, Dos Bocas, Naguabo (Stevens); Maricao, Barceloneta, Río Tanamá (W. & O.).

UROMYCES COLOGANIE Arth.

On *Teramnus uncinatus*, Cayey (Holway) (2).

UROMYCES COLUMBIANUS Mayor.

On *Melanthera canescens*, Palo Seco, Aibonito, Río Piedras, Espinosa; Ciales, Añasco, Corozal, Yauco, Mayagüez, Vega Baja, Cayey, Cabo Rojo, Rosario, Utuado, Quebradillas, Guayanilla, Dos Bocas, Jayuya (Stevens); Maricao, Barceloneta (W. & O.).

UROMYCES COMMELINÆ (Speg.) Cooke.

On *Commelina virginica*, Desecheo (Stevens).

UROMYCES DOLICHOLOI Arth.

On *Cajanus indicus*, Espinosa, Campo Alegre, Río Piedras; Guayanilla, Corozal, Jayuya, Rosario, Mayagüez, Vega Baja, Manatí, Quebradillas (Stevens); Yauco (W. & O.) (81, 90, 94).

Dolicholus eninimus, Guánica (W. & O.).

Dolicholus reticulatus, Boquerón, Aguada, Vega Baja (Stevens); Bayamón (Heller); Mayagüez (W. & O.).

UROMYCES ERAGROSTIDIS Tracy.

On *Eragrostis tephrosanthes*, Río Piedras; Bayamón (Stevens); San Germán (W. & O.) (2).

UROMYCES GEMMATUS Berk. & Curt.

On *Jacquemontia nodiflora*, Coamo Springs, Desecheo, San Germán, Guánica, Guayanilla (Stevens); Ponce (Holway).

UROMYCES HEDYSARI-PANICULATI (Schw.) Farl.

On *Meibomia axillaris*, Cabo Rojo (Stevens).

Meibomia scorpiurus, Mayagüez, Peñuelas (Stevens); Yauco (Heller).

Meibomia tortuosum, Sabana Llana; Yauco (W. & O.).

UROMYCES HELLERIANUS Arth.

On *Cayaponia americana*, Sierra de Naguabo; Maricao, Cabo Rojo (Stevens).

Cayaponia racemosa, Río Piedras, Campo Alegre; Corozal (Stevens); Mayagüez, Barceloneta, El Yunque, El Duque (W. & O.) (2).

Melothria guadalupensis, Río Piedras; Yauco, Rosario, Utuado, San Germán (Stevens); Mayagüez, El Duque (W. & O.).

UROMYCES HOWEI Peck.

On *Asclepias curassavica*, Comerío (Holway); Maricao (W. & O.).

UROMYCES IGNOBILIS (Sydow) Arth.

On *Sporobolus indicus*, Río Piedras, Campo Alegre; Mayagüez (Stevens); Naguabo (W. & O.).

Sporobolus virginicus, Camuy (Stevens).

UROMYCES JAMAICENSIS Vestery.

On *Bauhinia pauletia*, San Germán (Stevens); Mayagüez (Holway).

UROMYCES JANIPHÆ (Wint.) Arth.

On *Manihot manihot*, Río Piedras; Vega Baja (Stevens) (81, 90).

UROMYCES LEPTODERMUS Sydow.

On *Lasiacis divaricata*, Espinosa; Coleña, Utuado, San Germán, Maricao, Mona Island (Stevens).

Lasiacis ligulata, Maricao (W. & O.).

Lasiacis Sloanei, Arecibo (Stevens).

Lasiacis sorghoidea, Mayagüez, Maricao (W. & O.).

Panicum barbinode, Carolina, Río Piedras; Guánica, Boquerón, Mayagüez, Peñuelas (Stevens).

Panicum parviflorum, Martín Peña (W. & O.).

UROMYCES NEUROCARPI Dietel.

On *Clitoria cajanifolia*, Mayagüez (Stevens); San Juan (Britton) (2).

Clitoria rubiginosa, Espinosa, Naguabo, Camuy, Santurce, Río Piedras; Dorado (Stevens); Mayagüez, Barceloneta, Martín Peña (W. & O.).

UROMYCES PIANHYENSIS P. Henn.

On *Wedelia reticulata*, San Germán (Stevens); Yauco, Río Tanamá (W. & O.).

UROMYCES PRÆMINENS (D. C.) Pass.

On *Chamaesyce brasiliensis*, Mayagüez (W. & O.).

Chamaesyce hirta, Vega Baja, Camuy, Espinosa; Cataño, Vega Baja, Lares, Coamo Springs, Arecibo, Aguada, Guayama, Río Piedras, San Germán, Guayanilla (Stevens); Mayagüez (Clinton); Yauco, San Germán (W. & O.).

Chamaesyce hypericifolia, Fajardo, Río Piedras; Lajas (Stevens).

Chamaesyce prostrata, Río Piedras; Bayamón.

UROMYCES RHYNOSPORÆ Ellis.

On *Rynchospora distans*, Martín Peña (W. & O.).

Rynchospora micrantha, Naguabo (Stevens).

Rynchospora setacea, Martín Peña (W. & O.) (2).

UROMYCES SCLERLÆ P. Henn.

On *Scleria canescens*, Jájome Alto, El Alto de la Bandera (Stevens); El Yunque (W. & O.).

Scleria pterota, Río Piedras, Vega Baja; Luquillo Forest (Stevens); Mayagüez, Añasco, Naguabo (W. & O.) (2).

UROMYCES SABINEÆ Arth.

On *Sabinea punicea*, Maricao (W. & O.).

FORM-GENUS: ÆCIDIUM.

ÆCIDIUM ABSCENDENS Arth.

On *Randia aculeata*, Martín Peña, Bayamón; Mayagüez, Cataño, Aguada (Stevens); Barceloneta, Campo Alegre (W. & O.).

ÆCIDIUM BORRERLÆ Pat.

On *Hemidiodia ocimifolia*, Sierra de Naguabo; Mayagüez (Stevens); El Yunque (W. & O.).

ÆCIDIUM CIRCUMSCRIPTUM Schw.

See *Endophyllum circumscriptum*.

AECIDIUM DECOLORATUM Schw.

See *Endophyllum decoloratum*.

AECIDIUM EXPANSUM Diet.

See *Endophylloides portoricense*.

AECIDIUM FAVACEUM Arth.

On *Phyllanthus nobilis*, San Germán, Hormigueros (Stevens).

AECIDIUM PASSIFLORICOLA P. Henn.

See *Puccinia scleriæ*.

AECIDIUM TOURNEFORTIÆ P. Henn.

On *Tournefortia bicolor*, Barceloneta (W. & O.).

Tournefortia hirsutissima, Río Piedras; Yauco, Rosario (Stevens).

Tournefortia microphylla, Yauco (W. & O.).

AECIDIUM TUBULOSUM Pat. & Gaill.

See *Puccinia substriatum*.

AECIDIUM WEDELIÆ Earle.

See *Endophyllum wedeliæ*.

FORM-GENUS: UREDO.

UREDO ÆSCHYNOMENIS Arth.

On *Aeschynomene americana*, Río Piedras, Campo Alegre; Mayagüez, Ponce, Maricao, Rosario, Utuado, Aguada (Stevens).

UREDO ANTHURII Hariot.

On *Anthurium scandens*, El Alto de la Bandera (Stevens).

UREDO ARACHIDIS Lagerh.

On *Arachis hypogea*, Espinosa, Río Piedras, Pueblo Viejo; Dorado (Stevens) (81, 90, 94).

UREDO ARTOCARPI B. & Br.

On *Artocarpus comansi*, Mayagüez (Stevens).

Artocarpus communis, Río Piedras; Mayagüez (Clinton) (1, 81).

UREDO BIXÆ Arth.

On *Bixa orellana*, Adjuntas (Stevens); Maricao (W. & O.).

UREDO CABRERIANA Kern & Kellerm.

On *Erythrina glauca*, Río Piedras, Guaynabo; Bayamón (Holway).

UREDO CLUSIÆ Arth.

On *Clusia rosea*, Maricao (W. & O.).

UREDIO COCCOLOBÆ P. Henn.

On *Coccoloba uvifera*, Cataño; Mayagüez, Boquerón, San Germán (W. & O.).

UREDIO COMMELYNEÆ Kalchbr.

On *Commelina nudiflora*, Palo Seco.

Commelina virginica, Palo Seco; Coamo Springs (Stevens);
Arecibo (Heller); Sabana Llana (Goll).

UREDIO CUPHEÆ P. Henn.

On *Cuphea Parsonsia*, Río Piedras; Cabo Rojo (Stevens); Mayagüez, Maricao, Añasco (W. & O.).

UREDIO DICHROMENÆ Arth.

On *Dichromena ciliata*, Río Piedras, Sierra de Naguabo; Mayagüez (Clinton).

Dichromena radicans, Guayama (Stevens); Mayagüez, Maricao, Añasco, El Duque, Naguabo (W. & O.).

UREDIO DIOSCOREÆ P. Henn.

On *Dioscorea polygonoides*, El Yunque (W. & O.).

Rajania cordata, Río Piedras, Sierra de Naguabo; Bayamón, Jájome Alto, El Gigante, Dos Bocas, Santana (Stevens);
Maricao, Río Tanamá, Barceloneta, El Yunque (W. & O.).

UREDIO ERYTHROXYLONIS Guz.

On *Erythroxylon areolatum*, Mona Island (Stevens).

UREDIO FUIRENÆ P. Henn.

On *Fuirenia umbellata*, Naguabo; Santurce, Aguas Buenas, Mayagüez, Santa Catalina, Cataño (Stevens); Bayamón (Holway); El Yunque (W. & O.).

UREDIO GLOBULOSA Arth.

On *Hypoxis decumbers*, Campo Alegre, Río Piedras, Vega Baja; Las Marías, Bandera (Stevens); Maricao, Añasco (W. & O.).

UREDIO GOUANIÆ Ellis & Kelsey.

On *Gouania lupuloides*, Garrochales, Camuy, Naguabo, Jájome Alto, Aguadilla, San Germán (Stevens).

Gouania polygama, Guánica (Stevens).

UREDIO GUACÆ Mayor.

On *Epidendrum difforme*, Cayey; Jájome Alto (Stevens).

Epidendrum rigidum, Cayey (Holway).

UREDO GYMNOGRAMMES P. Henn.

On *Adiantum latifolium*, Las Marías (Stevens); Mayagüez (W. & O.).

Dryopteris mollis, Mayagüez (W. & O.).

Dryopteris poiteana, Villa Alba (Stevens); Mayagüez, Maricao (W. & O.).

Goniopteris guadalupensis, Mayagüez (W. & O.).

Pityrogramma calomelana, Maricao (W. & O.).

Tectaria marteniensis, Mayagüez (W. & O.).

UREDO GYNANDREARUM Corda.

On *Habenaria maculosa*, Cataño (Millspaugh); Bayamón (Heller).

Prescottia oligantha, Maricao (W. & O.).

UREDO HAMELIÆ Arth.

On *Hamelia erecta*, Espinosa; Lajas (Stevens); Yauco (W. & O.).

UREDO HELICONIÆ Diet.

See *Puccinia heliconiæ*.

UREDO HYMENÆE Mayor.

On *Hymenaea courbaril*, Martín Peña. Naguabo, Bayamón; Jayuya, Mayagüez. Añasco, Vega Baja (Stevens); Fajardo, Campo Alegre, Coamo (W. & O.).

UREDO JATROPHICOLA Arth.

On *Jatropha curcas*, Hormigueros (Stevens).

Jatropha gossypifolia, Río Piedras, Palo Seco, Martín Peña; San Germán, Guayama, Guayanilla (Stevens); Yauco, Río Tanamá (W. & O.).

UREDO LUTEA Arth.

On *Cassia quinquangulata*, Maricao, Jájome Alto, Naguabo (Stevens); El Yunque (W. & O.).

UREDO NIGROPUNCTATA P. Henn.

On *Bletia patula*, Maricao (Stevens).

UREDO NOTATA Arth.

On *Byrsonima crassifolia*, Mayagüez (W. & O.).

UREDO OLYRÆ P. Henn.

On *Oplismenus hirtellus*, Las Marías (Stevens).

UREDO OPERCULINÆ Arthur.

On *Operculina dissecta*, Yauco (W. & O.).

UREDO PALLIDA Diet. & Holw.

On *Zea mays*, Río Piedras, Punta Cangrejos, Sierra de Naguabo (90, 94).

UREDIO PASPALICGLA P. Henn.

(Uredo Stevensiana Arth.)

On *Axonopus compressus*, Mayagüez (Stevens).*Bambusa vulgaris*, Vega Baja, Espinosa; Maricao, Mayagüez (W. & O.) (94).*Paspalum conjugatum*, Espinosa, Río Piedras; Adjuntas (Stevens); Mayagüez, Maricao (W. & O.).*Paspalum glabrum*, Mayagüez (Stevens).*Paspalum paniculatum*, Vega Baja (Stevens).*Paspalum plicatulum*, Río Piedras, Guaynabo; Mayagüez (Stevens); Añasco (W. & O.).

UREDIO PIPERIS P. Henn.

On *Peperomia hernandifolia*, El Alto de la Bandera (Stevens).

UREDIO PLUCHEA Syd.

(Uredo biocellata Arth.)

On *Pluchea odorata*, Ponce, Vega Baja (Stevens); Guánica (Millsaugh).*Pluchea purpurascens*, Santurce, Cabo Rojo, Mona Island (Stevens); Mayagüez (W. & O.) (12).

UREDIO PROXIMELLA Arth.

On *Lactuca intybacea*, Sabana Grande (Stevens); Barceloneta (W. & O.).

UREDIO PUSTULATA P. Henn.

On *Stenorrhynchus lanceolatus*, Las Marías (Stevens).

UREDIO RUBESCENS Arth.

On *Dorstenia contrajerva*, Moca; Camuy (Stevens).

UREDIO SABICEICOLA Arth.

On *Sabicea aspera*, Mayagüez (Stevens); Maricao (W. & O.).

UREDIO SAUVAGESIÆ Arth.

On *Sauvagesia erecta*, Sierra de Naguabo; Jájome Alto (Stevens); El Yunque (W. & O.).

UREDIO SPARGANOPHORI P. Henn.

On *Struchium sparganophori*, Carolina; Mayagüez (Stevens).

UREDIO SUPERIOR Arth.

On *Fimbristylis ferruginea*, Martín Peña (W. & O.).*Fimbristylis spadicea*, Ponce (Heller); Mayagüez (W. & O.).

UREDIO TRICHILIA Arth.

On *Trichilia pallida*, Maricao (W. & O.).

UREDIO VENUSTULA Arth.

On *Andropogon brevifolius*, Río Piedras; Las Marías (Stevens).

UREDINEAE Arth.

On *Wedelia lanceolata*, Guánica (Stevens)

TREMELLACEAE.

AURICULARIA AURICULA-JUDE (L.) Schrt.

(*Hirneola auricula-juda* Berk.)

On rotten wood, Río Piedras, El Duque, Barceloneta, Santana, Fajardo, Caguas, El Yunque, Espinosa, Moca, Mameyes, Dorado; Adjuntas (Sintenis, 76) (82).

AURICULARIA AURIFORMIS (S.) Earle.

(*Eridia auriformis* Fr.)

Reported from the Schwanecke collection (50).

AURICULARIA DELICATA (Fr.) Henn.

(*Laschia lamellosa* Pat.)

On dead wood, Río Piedras. Also reported from the Sintenis collection (76), Barceloneta.

AURICULARIA NIGRESCENS (Sw.) Farlow.

(*Auricularia polytricha* [Mont.] Sacc.)

On dead wood, Espinosa: Vieques (Shafer) (102).

GUEPINIA PALMICEPS Berk.

On sugar-cane debris and rotten wood, Río Piedras; Yabucoa (Sintenis, 76) (48).

GUEPINIA SPATHULATA Schw.

On rotten wood, Río Piedras, Espinosa, Sabana Llana: El Yunque (Stevens) (48, 82).

TREMELLA FUCIFORMIS Berk.

On humus, Bayamón.

TREMELLA RUFOLUTEA Berk.

On rotten wood, El Yunque.

CLAVARIACEAE.

CLAVARIA FUMOSA Pers.

On soil, Martín Peña.

CLAVARIA INÆQUALIS Mull.

On soil, Río Piedras.

THELEPHORACEAE.¹

ASTEROSTROMA CERVICOLOR (B. & C.) Masee.

On soil and cane trash, Camuy, Río Piedras (48).

CLADODERRIS DENDRITICA Pers.

On dead sugar-cane stalk, Río Piedras.

¹ The majority of the determinations in this family by Dr. E. A. Burt.

CORTICIUM ARACHNOIDEUM Berk.

On soil and sugar-cane trash, Río Piedras.

CORTICIUM CONFLUENS Fr.

On dead citrus branch, Campo Alegre (96).

CORTICIUM CONTIGUUM Karst.

On dead wood, Río Piedras.

CORTICIUM DEBILE B. & C.

On dead wood, Río Piedras.

CORTICIUM INVESTIENS (Schw.) Bres.

On dead wood, Río Piedras, Martín Peña.

CORTICIUM KOLEROGA (Cooke) v. Höhn.

(*Pellicularia koleroga* Cooke.)

On *Coffea arabica*, Mayagüez (Thomas). The status of *Pellicularia koleroga* determined by Dr. Burt. ("Corticiums causing plant diseases." In Ann. Mo. Bot. Garden, v. 5, no. 2, April 1918, p. 119-132.) For additional Porto Rican data see under *Pellicularia*.

CORTICIUM LACTESCENS Berk.

On dead wood, Río Piedras.

CORTICIUM PORTENTOSUM B. & C.

On dead wood, Fajardo, Campo Alegre, Río Piedras, Martín Peña.

CORTICIUM SALMONICOLOR B. & Br.

On *Citrus decumana*, Río Piedras, Trujillo Alto, Garrochales, Espinosa (86, 89, 96).

Citrus sinensis, Pueblo Viejo.

Theobroma cacao, Mayagüez (Fawcett) (30).

CORTICIUM SIMILE B. & C.

On dead sticks, Río Piedras.

CORTICIUM SUBCONTINUUM B. & C.

On dead sticks, Río Piedras.

CORTICIUM TIPHRUM B. & C.

On dead wood, Bayamón.

CORTICIUM VAGUM B. & C.

On *Solanum tuberosum*. Reported by Barrett (6, 15), but occurrence doubtful.

HETEROCHÆTE ANDINA Pat.

On dead sticks, Bayamón.

HYMENOCHÆTE CACAO Berk.

Reported from the Sintenis collection (76).

HYMENOCHÆTE DAMÆCORNIS (Link.) Lev.

On dead wood, Adjuntas (Sintenis) (76).

HYMENOCHÆTE RUBIGINOSA (Schrad.) Lev.

On dead wood, El Duque, Río Piedras.

HYMENOCHÆTE SALLEI Berk.

On dead wood, Espinosa.

HYPOCHNUS PALLESCENS (Schw.) Burt.

(*Corticium pallescens* Schw.)

On dead wood, Río Piedras. The one collection cited by Dr. Burt in Ann. Mo. Bot. Garden, vol. 4, no. 3, Sept. 1917, pp. 267-8.

HYPOCHNUS RUBROCINCTUS Ehbgr.

On dead wood, Porto Rico (Stevens) (82).

PENIOPHORA CINEREA Fr.

On dead twigs, and branches of *Citrus* spp., and other trees, Pueblo Viejo, Espinosa, Bayamón, Río Piedras, Campo Alegre (48, 89, 96).

PENIOPHORA FLAVIDO-ALBA Cooke.

On dead wood and cane trash, Río Piedras, Vega Baja, Sabana Llana (48, 96).

✓ PENIOPHORA GALACHROA Bres.

On dead wood of *Melia azedarach*, Pueblo Viejo.

PENIOPHORA RAVENELII Cooke.

On dead wood, Río Piedras.

SEPTOBASIDIUM LILACINUM Burt.

On trunks of *Citrus decumana*, growing over lichens and debris, Bayamón, Espinosa (96).

SEPTOBASIDIUM PSEUDOPEDICELLATUM Burt.

On living branches, Mayagüez (Earle). Reported by Dr. Burt in Ann. Mo. Bot. Garden, vol. 3, no. 3, p. 329, fig. 1. (*Thelephoraceæ* of North America, VII.)

SEPTOBASIDIUM SPONGIA (B. & C.) Pat.

Growing over scale insects (*Lepidosaphes beekii*, *Chionaspis citri*) and debris on twigs and branches of *Citrus decumana*, Río Piedras, Espinosa, Pueblo Viejo, Campo Alegre, Garrochales, Vega Baja, Bayamón (94, 96).

STEREUM ALBO-BADIUM Schw.

On dead citrus wood, Vega Baja, Espinosa (96).

STEREUM CAPERATUM Berk & Mont.

On dead wood of *Inga laurina* and other trees, Río Piedras, Manatí.

STEREUM COFFEARUM B. & C.

On dead citrus twigs, Río Piedras (96).

STEREUM ELEGANS Meyer.

On dead wood, Mayagüez (López).

STEREUM FASCIATUM Schw.

On dead wood, Río Piedras, Bayamón, El Yunque, Comerío.

STEREUM LOBATUM Fr.

On dead wood, Río Piedras, San Patricio (Sintenis) (76).

STEREUM PAPHINUM Mont.

On dead wood, Espinosa.

STEREUM STRUMOSUM Fr.

On dead wood, Bayamón.

STEREUM TUBERCULOSUM Fr.

On dead wood, Río Piedras.

STEREUM UMBRINUM B. & C.

On dead wood, Río Piedras.

THELEPHORA MULTIFIDA Klotzsch.

Reported from the Schwanecke collection (50).

THELEPHORA SERICELLA B. & C.

On soil, Río Piedras, Martín Peña, Espinosa.

TREMELLODENDRON SIMPLEX Burt.

On soil, in cane field. Described in Ann. Mo. Bot. Garden, vol. 2, no. 4, pp. 742-3, from collection by Johnston (48).

HYDNACEÆ.

HYDNUM MULTIFIDUM (Klotzsch) P. Henn.

Reported from the Sintenis collection (76), on dead wood, Adjuntas.

HYDNUM SACCHARI Spreng.

On dead cane trash, Río Piedras (48).

IRPEX DISCOLOR Berk.

On rotten wood, Río Piedras.

IRPEX FARINACEA Fries.

(*Cerrenella farinacea* [Fries.] Murrill.)

(*Poria portoricensis* Fries.)

Reported from Porto Rico (65).

IRPEX FLAVUS Klotzsch.

Reported from the Sintenis collection (76).

IRPEX LACTEUS Fries.

(*Irpiciporus lacteus* [Fries] Murrill.)

On dead wood, Bayamón, Río Piedras, Pueblo Viejo (65, 82).

ODONTIA SACCHARI Burt.

On *Saccharum officinarum*, Río Piedras (13, 48, 105).

ODONTIA SACCHARICOLA Burt.

On *Paspalum* sp., Río Piedras.

Saccharum officinarum, Río Piedras, Canóvanas, Cambalache, Camuy (13, 48, 105).

ODONTIA WRIGHTII (B. & C.) Pat.

On dead wood, El Duque.

POLYPORACEÆ.

DÆDALEA REPANDA Pers.

(*Dadalea amanitoides* Beauv.)

On dead wood, El Yunque, Santurce, Río Piedras, Moca, Juncos, Mameyes, Vega Baja, Martín Peña, Espinosa; Mona (12), Monte Alegrillo, Cabo Rojo (Stevens) (82). Reported from the Sintenis collection (76) as *Trametes elegans* (Spr.) Fr.

FAVOLUS BRAZILIENSIS Fr.

(*Hexagona Wilsonii* Murrill.)

(*Hexagona dadalea* [Link] Murrill.)

On dead wood, El Duque, Aibonito, Mameyes; Monte Alegrillo (Stevens) (62, 82). Reported from the Sintenis collection (76) as *Favolus hispidulus* Berk.

FAVOLUS PORTORICENSIS (Murr.) Sacc.

(*Hexagona portoricensis* Murrill.)

Reported and named from Porto Rico by Murrill (62, 65).

FAVOLUS PSEUDOPRINCEPS (Murr.) Sacc.

(*Hexagona pseudoprinceps* Murrill.)

On dead wood, Carmelita (Earle) (61, 62).

FOMES AUSTRALIS Fr.

(*Fomes fasciatus* Lev.)

(*Elfvingia tornata* [Pers.] Murrill.)

On dead wood, Bayamón, Río Piedras, Mameyes, Martín Peña, El Duque; Monte Alegrillo (Stevens) (82). Reported as *Ganoderma australe* (Fr.) Pat. from the Sintenis collection (76).

FOMES BADIUS Berk.

(*Fulvifomes Underwoodii* Murrill) (65).

(*Pyropolyporus Underwoodii* Murrill.)

On dead wood, Palo Seco (62).

FOMES CALCITRATUS Berk & Curt.

(*Fulvifomes calcitratus* [Berk & Curt.] Murrill.)(*Pyropolyporus calcitratus* [Berk. & Curt.] Murrill.)

On dead wood. Col. N. Y. Bot. Garden (62, 65).

FOMES DEPENDENS Murrill.

(*Fulvifomes dependens* Murrill.)(*Pyropolyporus dependens* Murrill.)

On dead wood and sometimes as a cause of heart rot of hardwood trees, Vieques (Shafer); Mona Island (Britton) (12, 82, 102).

FOMES EXTENSUS Lev.

(*Fulvifomes extensus* [Lev.] Murrill.)(*Pyropolyporus extensus* [Lev.] Murrill.)

On dead wood, Pueblo Viejo.

FOMES IGNIARIUS (L.) Fr.

(*Pyropolyporus igniarius* [L.] Murrill.)Reported from the Sintenis collection (76). Probably *Fomes extensus*.

FOMES LAMÆNSIS Murrill.

On dead wood, Martín Peña.

FOMES LIGNEUS (Berk.) Cooke.

Reported from the Sintenis collection (76).

FOMES LIGNOSUS Klotzsch.

(*Fomes auberianus* [Mont.] Murrill.)

On dead wood, Mameyes, El Duque, Pueblo Viejo, Río Piedras; Mayagüez (López); Maricao (Stevens) (82).

FOMES LINTEUS Berk.

On dead wood, Río Piedras. Determined by Dr. Murrill as *Fomes* (*Fulvifomes*) *extensus*.

FOMES MARMORATUS Berk.

(*Elfvíngia fasciata* [Sw.] Murrill.)(*Elfvíngiella fasciata* [Sw.] Murrill.)(*Fomes fasciatus* Schwartz.)On dead wood, Naguabo, Moca, Bayamón, Aibonito, Río Piedras, Manatí, Fajardo, Mameyes, Comerío; Monte Alegriño (Stevens) (82). Reported from the Sintenis collection (76) as *Fomes fomentarius* (L.) Fr.

LASCHIA PEZIZOIDES B. & C.

On dead wood, Río Piedras.

LENZITES STRIATA Fr.

(*Glæophyllum striatum* [Fr.] Murrill.)

On dead wood, Río Piedras, Humacao, Bayamón, Caguas, Camuy, Espinosa, Santana; Mona Island (12); Vieques (Shaffer) (82, 102).

MERULIUS BYSSOIDEUS Burt.

On soil and cane trash, Río Piedras (48). Described by Dr. Burt in Ann. Mo. Bot. Garden, v. 4, no. 4, Nov. 1917, pp. 358-9, fig. 1. Collection by J. R. Johnston.

MERULIUS RUGULOSUS B. & C.

(*Corticium saccharinum* B. & C.)

On dead wood, Bayamón.

MERULIUS SULPHUREUS Burt.

On rotten wood and bark, Bayamón.

POLYPORUS AMBOINENSE Fr.

Reported as *Ganoderma amboinense* (Lam.) Pat. from the Sintenis collection (76). "The determination is in all probability wrong. Known only from the Philippines, although applied to many tropical plants, related to *Polyporus lucidus*."—Lloyd.

POLYPORUS ANEBUS Berk.

On dead wood, Mameyes.

POLYPORUS BLANCHETIANUS Mont.

Reported from the Sintenis collection (76). Given by Lloyd as practically a form of *P. varius*.

POLYPORUS CHAPERI Pat.

(*Amauroderma Chaperi* [Pat.] Murrill.)

On dead wood, Santa Isabel (65).

POLYPORUS CONCHOIDES Mont.

Reported as *Glæoporus conchoides* Mont. from the Sintenis collection (76).

POLYPORUS CONCRESCENS Mont.

(*Rigidoporus evolutus* [Berk. & Curt.] Murrill)

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS DEALBATUS B. & C.

(*Microporellus dealbatus* [B. & C.] Murrill.)

On dead wood, Porto Rico (Stevens) (82).

POLYPORUS DISTORTUS Schw.

(*Abortiporus distortus* [Schw.] Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS FIMBRIATUS Fr.

Reported from the Sintenis collection (76) as *P. Warmingii* Berk.
POLYPORUS FLAVESCENS Mont.

(*Tyromyces albogilvus* [Berk. & Curt.] Murrill.)

On dead trunks. Coll. N. Y. Bot. Garden (65).

POLYPORUS FLAVIPORUM Murrill.

(*Amuroderma flaviporum* Murrill.)

On dead wood, Cortada.

POLYPORUS FRUCTICUM Berk.

(*Inonotus corrosus* Murrill.)

On dead wood, Mona Island (Britton); Vieques (Shafer) (12, 65, 82, 102).

POLYPORUS FULVELLUS Bres.

(*Ganoderma nitidum* Murrill.)

On dead wood. Garrochales, Río Piedras.

POLYPORUS GILVUS Schw.

(*Hapalopilus gilvus* [Schw.] Murrill.)

On dead wood, Pueblo Viejo, Moca, Aibonito, El Yunque, Vega Baja, El Duque, Río Piedras; Maricao (Stevens); Vieques (Shafer) (82, 102). Reported from Cayey in the Sintenis collection (76) as a variety, *scruposus*.

POLYPORUS GRACILIS Kl.

(*Polyporus obolus* Ellis & Macbr.) (65).

(*Polyporus Cowellii* Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

POLYPORUS HAVANNENSIS Berk.

(*Trametes havannensis* [Berk.] Murrill.)

On dead wood, Porto Rico (Stevens) (82). Probably referable to *Polyporus subfulvus* Berk.

POLYPORUS HEMILEUCUS Berk & Curt.

Reported from the Sintenis collection (76). Referable to *P. supinus*, or possibly *P. modestus*.

POLYPORUS LEPRIEURII Mont.

Reported from the Sintenis collection (76).

POLYPORUS LICNOIDES Mont.

(*Hapalopilus licnoides* [Mont.] Murrill.)

On dead wood, Fajardo, Martín Peña, El Duque, Palo Seco, Comerío, Río Piedras; Maricao (Stevens) (82).

POLYPORUS LUCIDUS Leys.

Reported as *Ganoderma lucidum* (Leys.) Pat. from the Sintenis collection (76).

POLYPORUS MARBLEE Murrill.

On dead wood, Utuado. Coll. N. Y. Bot. Garden (65).

POLYPORUS MODESTUS Kze.

On dead wood, Fajardo (Schwanecke) (50).

POLYPORUS NIVOSELLUS Murrill.

(*Tyromyces nivosellus* Murrill.)

Reported from Porto Rico in North Amer. Flora (62, 65).

POLYPORUS OBTUSUS Berk.

(*Spongipellis unicolor* [Schw.] Murrill.)

Reported from Humacao in the Schwanecke collection (50) as

Polyporus unicolor Schw.

POLYPORUS PAPYRACEUS Fries.

Reported in North American Flora. Probably *Polystictus membranaceus* (62).

POLYPORUS PERZONATUS Murrill.

(*Ganoderma perzonatum* Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS PUSILLUS Persoon.

(*Favolus rhipidium* Berk.)

(*Favolus subpulverulentus* Berk & Curt.)

(*Inonotus pusillus* [Pers.] Murrill.)

On dead and rotten wood. Pueblo Viejo, Martín Peña, Río Piedras, Comerío; Monte Alegrillo (Stevens) (82). Also reported from the Sintenis collection (76).

POLYPORUS RUGULOSUS Lev.

Reported from Cayey in the Sintenis collection (76). "Very close to and practically the same plant as *Polyporus zonalis* Berk."—Lloyd.

POLYPORUS SEMILACCATUS Berk.

On dead wood, Palo Seco.

POLYPORUS SUBFULVUS Berk.

(*Coriolus ochrotinctellus* Murrill.)

On dead wood, Espinosa, Bayamón, Guaynabo, Río Piedras (65, 82).

POLYPORUS SULPHUREUS (Bull.) Fr.

(*Latiporus speciosus* [Batt.] Murrill.)

Reported from Lares in the Sintenis collection (76).

POLYPORUS SUPINUS Swartz.

(*Fomitella supina* [Sw.] Murrill.)

On dead wood, Arecibo, Santana, Moca, El Duque.

POLYPORUS TRICHOLOMA Mont.

On dead wood, Martín Peña, Río Piedras, El Duque, Espinosa;
Humacao (Schwanecke) (50).

POLYPORUS VARIIPORUS Murrill.

On dead sticks (62, 65).

POLYPORUS VINOSUS Berk.

(*Nigroporus vinosus* [Berk.] Murrill.)

On dead wood, Sierra de Naguabo.

POLYPORUS ZONALIS Berk.

(*Rigidoporus surinamensis* [Miq.] Murrill.)

On dead wood, Río Piedras, Espinosa, Guaynabo, Fajardo, Palo
Seco; El Alto de la Bandera, Monte Alegreillo (Stevens)
(82).

POLYSTICTUS ARMENICOLOR Berk & Curt.

(*Coriolus armenicolor* [Berk. & Curt.] Pat.)

On dead wood, Río Piedras (65).

POLYSTICTUS CROCATUS Fries. (?)

(*Coriopsis crocata* [Fries.] Murrill.)

On dead wood, Porto Rico (Stevens) (82).

POLYSTICTUS DRUMMONDII Klotzsch.

(*Coriolus Drummondii* [Klotzsch] Pat.)

On dead wood, Bayamón; Mayagüez (Stevens) (82).

POLYSTICTUS ELONGATUS Berk.

On dead wood, Río Piedras. Also reported from the Sintenis
collection (76).

POLYSTICTUS FULVOCINEREUS Murrill.)

(*Coriopsis fulvocinerea* Murrill.)

On dead wood, Martín Peña.

POLYSTICTUS HÆDINUS Berk.

(*Coriolus hædinus* [Berk.] Pat.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

POLYSTICTUS HIRSUTUS Fr.

(*Coriolus nigromarginatus* [Schw.] Murrill.)

Reported from Barranquitas (Sintenis) (76).

POLYSTICTUS HIRTELLUS Fr.

(*Coriolus nigromarginatus* [Schw.] Murrill.)

On dead wood, Martín Peña, Río Piedras.

POLYSTICTUS HOLLICKII Murrill.

(*Coriolus Hollickii* Murrill.)

On dead wood, Monte Alegreillo (Stevens) (65, 82).

POLYSTICTUS MAXIMUS Mont.

(*Coriolus maximus* [Mont.] Murrill.)

On dead wood, Moca, Martín Peña, Manatí, Espinosa, Río Piedras; Vieques (Shafer); Cabo Rojo (Stevens) (82, 102).

POLYSTICTUS MEMBRANACEUS Sw.

(*Coriolus membranaceus* [Sw.] Pat.)

On dead wood, Bayamón, Martín Peña, Espinosa, Pueblo Viejo, El Yunque, Comerío; Monte Alegrillo (Stevens) (82). Reported from the Sintenis collection (76).

POLYSTICTUS OCCIDENTALIS Klotzsch.

(*Corioloopsis occidentalis* [Kl.] Murrill.)

On dead wood, Martín Peña, Fajardo, Palo Seco, Río Piedras, El Yunque, Vega Baja, Barceloneta, Bayamón, Guaynabo; Barceloneta (Sintenis, 76) (48, 82, 96).

POLYSTICTUS PAVONIUS Hook.

(*Coriolus pavonius* [Hook.] Murrill.)

On dead wood, Bayamón, Río Piedras, Mameyes, El Yunque, Fajardo (82).

POLYSTICTUS PINSITUS Fries.

(*Coriolus pinsitus* [Fries] Murrill.)

On dead wood, Río Piedras, Martín Peña, Bayamón, Espinosa, Campo Alegre, Barceloneta, Garrochales, Mameyes, Vega Alta, El Yunque; Utuado, Monte Alegrillo, Vega Baja. (Stevens) (82, 96); Mona (12); Vieques (Shafer) (102). Reported from Utuado in the Sintenis collection (76) as *P. umbonatus* Fr.

POLYSTICTUS POLYZONUS Pers.

On dead wood, Río Piedras.

POLYSTICTUS RIGENS Sacc. & Cub.

(*Corioloopsis rigida* [Berk. & Mont.] Murrill.)

On dead wood, Sardinera (12, 82); Río Piedras, Martín Peña, Pueblo Viejo, El Duque, Campo Alegre, El Yunque, Santana, Arecibo, Bayamón.

POLYSTICTUS SANGUINEUS L.

(*Pycnoporus sanguineus* [L.] Murrill.)

On dead wood, Martín Peña, Río Piedras, El Yunque, Sierra de Naguabo, Espinosa, Palo Seco, Dorado; Añasco (Stevens) (82). Also reported from the Sintenis and Schweincke collections (50, 76), Mona Island (12), and Vieques (102).

POLYSTICTUS SINUOSUS B. & C.

(*Poria sinuosa* Fr.)

On dead cane stalks and rotten wood, Río Piedras, Gurabo, Bayamón (48, 53). Both the pileate and resupinate forms occur.

POLYSTICTUS SPATHULATUS Hook.

(*Polyporus multiformis* Mont.)(*Coltricia spathulata* [Hook.] Murrill.)

On dead wood, Martín Peña.

POLYSTICTUS STEREINUS B. & C.

(*Rigidoporus Liebmanni* [Fries.] Murrill.)

On rotten wood, El Yunque (62).

POLYSTICTUS SUBGLABRESCENS Murrill.

(*Coriolopsis subglabrescens* Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

POLYSTICTUS VELUTINUS Fr.

Reported from Humacao in the Schwanecke collection (50).

POLYSTICTUS VERSICOLOR L.

(*Coriolus versicolor* [L.] Quel.)

On dead wood, Mayagüez (Stevens) (82).

PORIA AURANTIOTINGENS Ellis & Macbr.

(*Tinctoporia aurantiotingens* [Ell. & Macbr.] Murrill.)

On dead wood, Río Piedras, El Duque.

PORIA VINCTA Berk.

On dead wood, Río Piedras.

TRAMETES CUBENSIS (Mont.) Sacc.

On dead wood, Espinosa, El Duque, Martín Peña.

TRAMETES HYDNOIDES Sw.

(*Pogonomyces hydnoides* [Sw.] Murrill.)

On dead wood, Martín Peña, Moca, Espinosa, Caguas, Arecibo; Mona Island (12); Monte Alegrillo (Stevens) (82). Also reported from the Sintenis collection (76).

TRAMETES NIVOSA (Berk.) Murrill.

On dead cane stalks, Río Piedras (48).

TRAMETES SUBMURINA Murrill.

On rotten wood, Espinosa, Palo Seco, Río Piedras, Santurce.

TRAMETES TAYLORI Murrill.

(*Coriolopsis Taylora* Murrill.)

On dead wood, Naguabo, Vega Baja (62, 65).

AGARICACEÆ.

AGARICUS JOHNSTONII Murrill.

On humus, Río Piedras (68).

AMPHALLA LAPIDESCENS (Hor.) Cohn & Schrot.

Reported from the Sintenis collection (76).

ATYLOSPORA BYSSINA Murrill.

On dead wood, Río Piedras (67).

CAMPANULARIS CAMPANULATUS (L.) Earle.

On manure, Río Piedras (Fink.) (67).

CAMPANULARIS SOLIDIPIES (Peck) Murrill.

On horse manure, Río Piedras; Utuado (Britton and Cowell);
Mayagüez, Aibonito (Fink) (67).

CORTINARIUS SINTENISII P. Henn.

Reported from the Sintenis collection (76).

GALERA TENER (Schaeff.) Quel.

On humus, Río Piedras.

GYMNOPIIUS EARLII Murrill.

On dead wood, Mayagüez (Thomas and López).

GYMNOPUS TENUIPES (Schw.) Murrill.

On dead wood, reported in N. Amer. Flora (66).

HELIOMYCES SUBAVELLANEUS Murrill.

On dead wood, Río Piedras (Shafer) (64).

LENTINULA DETONSA (Fries) Murrill.

On dead wood. Coll. N. Y. Bot. Garden (63).

LENTINUS CRINITUS (L.) Fries.

On dead wood and cane stalks, Río Piedras, Pueblo Viejo, Moca,
Campo Alegre, Martín Peña, El Duque; Cayey (Stevens).
(48, 82). Also reported from Mona Island (12), and from
the Sintenis collection (76). Recorded in the Schwanecke
collection as *Lentinus nigripes* Fr. (50).

LENTINUS HIRTUS (Fries) Murrill.

On dead wood, Río Piedras, Espinosa, Pueblo Viejo, Caguas,
El Yunque, Gurabo, El Duque, Mameyes (63, 82).

LENTINUS LEPIDEUS Fries.

(*Lentodium squamosum* [Huds.] Murrill.)

On rotten wood, Río Piedras (63, 82).

LENTINUS SCYPHOIDES Pat.

On dead wood, Río Piedras.

LENTINUS STRIGELLUS Berk & Curt.

On dead wood. Col. N. Y. Bot. Garden (63).

LENTINUS STRIGOSUS (Schw.) Fries.

On dead wood, Moca, Río Piedras, Santana; Cabo Rojo (Stevens); Vieques (82, 102). Also from the Sintenis collection (76) as *L. Lecomtei* Fr.

LENTINUS SUBSCYPHOIDES Murrill.

On dead wood, Río Piedras (64).

LENTINUS VELUTINUS Fries.

On dead wood, Santana.

LEPIOTA CERÆSTIPES (Sow.) Quel.

On humus, Martín Peña, Río Piedras.

LEPIOTA CRETACEA (Bul.) Murrill.

On soil in cane fields, Río Piedras.

LEPIOTA MORGANI Peck.

(*Chlorophyllum molybdites* Mass.)

On humus, Bayamón, Río Piedras.

LEPIOTA RUBROTINCTA Pk. (?).

Reported by Stevens (82).

MARASMIUS BERTEROI (Lev.) Murrill.

On trunks of trees (64).

MARASMIUS BORINQUENSIS Stevenson.

On dead sugar-cane stalks, Río Piedras (48).

MARASMIUS CINEREIALBUS Murrill.

On leaf mold, Río Piedras (64).

MARASMIUS HIORAMI Murrill.

On dead and dying sugar-cane leaves and roots, Río Piedras (48, 64).

MARASMIUS JOHNSTONII Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS OBSOLETUS Murrill.

On dead wood, Río Piedras (64).

MARASMIUS PALLESCENS Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS PAUCIFOLIUS Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS PECKII Murrill.

On dead leaves (64).

MARASMIUS PORTORICENSIS Murrill.

On leaf mold, Río Piedras (64).

MARASMIUS SACCHARI Wakker.

On *Andropogon bicornis*, Río Piedras.

Bromelia pinguin, Río Piedras.

Panicum barbinode, Cambalache, Patillas.

Saccharum officinarum, Ponce, Fortuna, Río Piedras, Canóvanas, Mameyes (22, 23, 38, 40, 41, 48, 59, 91, 94, 105).

MARASMIUS SYNODICUS (Kunze) Fries.

On dead leaves and grass, Río Piedras (64).

MARASMIUS WILSONII Murrill.

On dead leaves, Luquillo (Wilson) (64).

MELANOTUS FUMOSIFOLIUS Murrill.

On rotten wood, Utuado (Britton and Marble) (67).

OMPHALOPSIS EUSPEIREA (Berk. & Curt.) Murrill.

On dead wood (66).

PANELLUS EUGRAMINUS (Mont.) Murrill.

On dead wood, El Duque, Río Piedras.

PLICATURA OBLIQUA (B. & C.) Murrill.

On dead wood, Bayamón, Río Piedras, El Yunque, Martín Peña.

POLYMARASMIUS SARMENTOSUS (Berk.) Murrill.

On dead wood (64).

PSATHYRELLA MINUTULA (Schaeff.) Murrill.

(*Psathyrella disseminata* Quel.)

On humus, El Yunque, Río Piedras.

PSATHYRELLA STEVENSONII Murrill.

On garden soil, Río Piedras (67).

SCHIZOPHYLLUM COMMUNE Fr.

(*Schizophyllum alneum* [L.] Schroet.)

(*Schizophyllum alneus* [L.] Schröet.)

On *Citrus decumana*, Río Piedras. Fruit rot, and wood rot of trunk and limbs (89, 96).

Ipomœa batatas, Río Piedras.

Saccharum officinarum (dead and dying stalks), Río Piedras, Plazuela (20, 38, 48, 105). Common everywhere on dead wood, Yabucoa, Carolina, Bayamón; Maricao, Cataño, El Gigante (Stevens) (82); Mona Island (12); Vieques (102); Adjuntas (Sintenis) (50, 76); Santurce Heller) (19).

SCYTINOTUS DISTANTIFOLIUS Murrill.

On dead wood, grass and sugar-cane leaves, Río Piedras (48, 64).

STROPHARIA CUBENSIS Earle.

On manure, various localities (Britton and Marble) (Fink) (68)

PHALLACEÆ.

CLATHRUS CANCELLATUS Tournef.

Porto Rico (Sintenis) (76). Probably should be referred to the following species.

CLATHRUS CRISPUS Turpin.

On garden soil, Santurce.

LATERNEA COLUMNATA Nees.

Sintenis, from Porto Rico. Reported (76) as *Clathrus columnatus*.

LATERNEA TRISCAPA Turpin.

On garden soil, Río Piedras.

MUTINUS CANINUS (Huds.) Fr.

Reported by Johnston at Río Piedras.

PHALLUS INDUSIATUS Vent.

On soil, Mayagüez (Brandes); Río Piedras, Martín Peña; Adjuntas (Sintenis) (76) as *Dictyophora phalloidea*.

LYCOPERDACEÆ.

GEASTER MIRABILIS Mont.

On forest soil, Martín Peña; Adjuntas (Sintenis) (76).

GEASTER SACCATUS Fr.

On humus, Río Piedras.

GEASTER VELUTINUS Morgan.

On humus, Río Piedras.

LYCOPERDON ALBIDUM Cooke.

On dead cane stalks and debris, Cortada, Río Piedras (48, 52).

LYCOPERDON CRUCIATUM Rostk.

On soil and rotten wood, Río Piedras, Palo Seco.

LYCOPERDON PUSILLUM Batsch.

On humus and cane trash, Pueblo Viejo, Río Piedras (48).

LYCOPERDON PYRIFORME Schaeff.

(*Lycoperdon rubellum* Beck.)

On soil, Río Piedras, Barceloneta (48).

TYLOSTOMA EXASPERATUM Mont.

On dead wood, Lares (Sintenis) (76).

NIDULARIACEÆ.

CYATHUS EARLEI Lloyd.

On dead wood, Sabana Llana, Palo Seco.

CYATHUS PALLIDUS Berk.

On dead wood, Martín Peña, Río Piedras.

CYATHUS PÆPPIGH Tulasne.

On dead cane stalks and dead wood, Río Piedras, Fajardo (48).

CYATHUS STERCOREUS Schw.

On manure, Río Piedras.

CYATHUS STRIATUS Hudson.

(Nidularia striata Bull.)

Reported from the Schwanecke collection (50), but would doubtless be found to be *C. pæppigii* if reexamined.

SPHEROBOLUS STELLATUS Tode.

On cane trash and rotten wood, Río Piedras (48).

FUNGI IMPERFECTI.

PHOMATACEÆ.

ACTINONEMA ROSÆ (Lib.) Fr.

On leaves of *Rosa* sp., Río Piedras (94).

ASCOCHYTA NICOTIANÆ Pass.

On *Nicotiana tabacum* (8).

CINCINNOBOLUS CESATH De By.

On *Erysiphe polygoni* (?) on *Cassia tora*, San Germán (Stevens) (82).

CRYPTOSTICTIS HYSTERIOIDES Fuckel.

On dead leaves, Río Piedras.

CYTOSPORA SACCHARI Butler.

On dead and dying sugar-cane leaf-sheaths and stalks, Río Piedras, Carolina, Fajardo (48, 84, 105).

DARLUCA FILUM (Biv.) Cast.

On *Kuehneola gossypii* on *Gossypium barbadense* (Stevens).*Puccinia cannae* on *Canna* sp. (Stevens).*Puccinia eleocharidis* on *Eleocharis* sp., Mayagüez (Stevens).*Puccinia gouanix* on *Gouania*, Utuado (Stevens).*Puccinia Huberi* on *Panicum trichoides*, Jayuya (Stevens).*Puccinia lantanae* on *Lantana involucrata*, Quebradillas.*Puccinia polygoni-amphibii* on *Persicaria punctata*, Río Piedras.

DARLUCA FILUM (Biv.) Cast.—*Continued*.

On *Puccinia rivinae* on *Rivina humilis*, Desecheo (Stevens).

Puccinia substriata on *Eriochloa subglabra*, Mayagüez (Stevens).

Uredo aeschynomenis on *Aeschynomene americana* (Stevens).

Uromyces leptodermus, on *Lasiacis divaricata* and *Panicum barbinode* (Stevens) (82).

Rust (undet.) on *Kyllingia* sp. (Sintenis) (76).

DIPLODIA CACAÛICOLA P. Henn.

On *Saccharum officinarum*, Río Piedras, Vieques, Las Monjas, (48, 94, 105).

Theobroma cacao, Mayagüez (20).

DIPLODIA NATALENSIS Evans.

On *Citrus* spp., as a fruit rot, twig blight, and trunk canker, Río Piedras, Garrochales, Palo Seco, Pueblo Viejo, Espinosa, Bayamón, Campo Alegre (29, 58, 84, 89, 94, 96).

DIPLODIA OPUNTILÆ Sacc.

On *Opuntia* sp., Guánica (84).

DIPLODIA TUBERICOLA (E. & E.) Taub.

On *Ipomœa batatas*, Río Piedras.

PHOMA DESTRUCTIVA Plowr.

On *Lycopersicum esculentum*, Río Piedras (90, 94).

PHOMA FOURCROYÆ Thüm.

On *Furcrea tuberosa*, Espinosa, Bayamón.

PHOMOPSIS CITRI Faw.

On *Citrus decumana*, Trujillo Alto, Bayamón, Palo Seco (89, 96).

Citrus sinensis, Bayamón (89, 96).

PHOMOPSIS VEXANS (Sacc. & Syd.) Harter.

On *Solanum melongena*, Río Piedras (90, 94).

PHYLLOSTICTA ADIANTICOLA Young.

On *Adiantum tenerum*, Río Piedras, Camuy; Manatí, Utuado, Quebradillas (Stevens) (103).

PHYLLOSTICTA APII Hals.

On *Apium graveolens*, Río Piedras.

PHYLLOSTICTA ARALIANA Young.

On *Dendropanax arboreum*, Maricao (Stevens) (103).

PHYLLOSTICTA BATATAS E. & M.

On *Ipomœa batatas*, Río Piedras (90).

PHYLLOSTICTA BIXINA Young.

On *Bixa crellana*, Bayamón, Espinosa, Río Piedras; Maricao, San Germán, Rosario, Mayagüez, Coamo, Añasco, Adjuntas (Stevens) (103).

PHYLLOSTICTA BORINQUENSIS Young.

On *Helicteres jamaicensis*, Palo Seco, Martín Peña; San Germán (Stevens) (103).

PHYLLOSTICTA CISSICOLA Speg.

On *Cissus sicyoides*, Río Piedras: Vega Baja, Jájome Alto (Stevens) (103).

PHYLLOSTICTA CITRULLINA Chester.

On *Cucurbita melo*, Río Piedras (90).

PHYLLOSTICTA CLUSIÆ Stevens.

On *Clusia rosea*, Maricao (Stevens) (82).

PHYLLOSTICTA COCCOLOBÆ E. & E.

On *Coccoloba uvifera*, Mona Island (Stevens) (103).

PHYLLOSTICTA COLOCASIÆ Höhnelt.

On *Dieffenbachia seguine*, Monte de Oro (Stevens) (90, 103).

PHYLLOSTICTA COLOCASICOLA Höhnelt.

On *Colocasia* sp., Caguas (Stevens) (103).

PHYLLOSTICTA COMMELINICOLA Young.

On *Commelina nudiflora*, Río Piedras, Trujillo Alto; Hormigueros (Stevens) (103).

PHYLLOSTICTA CUCURBITACEARUM Sacc.

On *Cucumis sativus*, Río Piedras (90).

PHYLLOSTICTA DIVERGENS Sacc.

On *Albizzia lebeck*, Porto Rico (Stevens) (103).

PHYLLOSTICTA ERYTHRINICOLA Young.

On *Erythrina micropteryx*, Aibonito; Villa Alba, Jájome Alto, Yauco, Mayagüez (Stevens) (103).

PHYLLOSTICTA EUGENIÆ Young.

On *Eugenia buxifolia*, Mona Island (Stevens) (103).

PHYLLOSTICTA EUPATORICOLA Rab. & Bub.

On *Eupatorium odoratum*, Río Piedras, Sierra de Naguabo; Villa Alba (Stevens) (103).

PHYLLOSTICTA GLAUCISPORA Delacr.

On *Urechites lutea*, Porto Rico (Stevens) (103).

PHYLLOSTICTA GUANICENSIS Young.

On *Guilandina crista*, Guánica (Stevens) (103).

PHYLLOSTICTA GUAREÆ P. Henn.

On *Guarea irichilioides*, Aguas Buenas (Stevens) (103).

PHYLLOSTICTA HORTORUM Speg.

See *Phomopsis vexans*.

PHYLLOSTICTA HYBISCINA E. & E.

On *Abutilon umbellatum*, Mona Island (Stevens) (82).

PHYLLOSTICTA IPOMÆE Ell. & Keller.

On *Exogonium repandum*, Manatí, Mayagüez, Río Piedras, Dos Bocas (Stevens) (103).

PHYLLOSTICTA LANTANÆ Stevens.

On *Lantana odorata*, Desecheo, Mona, Utuado, Guánica (Stevens) (82).

PHYLLOSTICTA MOMISIANA Young.

On *Momisia iguanaca*, Coamo (Stevens) (103).

PHYLLOSTICTA MACULICOLA Hals.

On *Cordyline terminalis*, Río Piedras, Sabana Llana.

PHYLLOSTICTA PANDANICOLA Young.

On *Pandanus* sp., Santurce (Stevens) (103).

PHYLLOSTICTA PANICI Young.

On *Panicum maximum*, Río Piedras; Coamo, Martín Peña (Stevens) (103).

PHYLLOSTICTA PITHECOLOBII Young.

On *Pithecolobium unguis-cati*, Desecheo, Yauco (Stevens) (103).

PHYLLOSTICTA PITHECOLOBII var. MONENSIS Young.

On *Pithecolobium unguis-cati*, Mona Island (Stevens) (103).

PHYLLOSTICTA PORTORICENSIS Young.

On *Croton lucidus*, Guánica (Stevens) (103).

PHYLLOSTICTA SACCHARI Speg.

On *Saccharum officinarum*, Gurabo, Río Piedras; Juana Díaz (Stevens) (48, 103).

PHYLLOSTICTA SECHII Young.

On *Sechium edule*, Río Piedras; Mayagüez (Stevens) (103).

PHYLLOSTICTA STEVENSII Young.

On *Triumfetta semitriloba*, Coamo, Villa Alba (Stevens) (103).

PHYLLOSTICTA SUPERFICIALE Stevens.

On *passiflora sexflora*, Ponce, Monte de Oro, El Consumo, Adjuntas, Utuado, El Yunque, Jájome Alto, Maricao, Guayama (Stevens) (82).

SEPTORIA ASIATICA Urb.

On *Centella asiatica*, Vega Baja, San Sebastián (Stevens) (34).

SEPTORIA CHELIDONII Desm.

On *Argemone mexicana*, Guayama (Stevens) (34).

SEPTORIA FICI-INDICÆ Vogt.

On *Opuntia dillenii*, Guánica, Santa Isabel (Stevens) (82).

SEPTORIA GUETTARDÆ Garman.

On *Guettarda ovalifolia*, Monte Alegreillo (Stevens) (34).

SEPTORIA LANTANÆ Garman.

On *Lantana camara*, Porto Rico (Stevens) (34).

SEPTORIA LYCOPERSICI Speg.

On *Lycopersicum esculentum*, Río Piedras, Sabana Llana (90, 94).

SEPTORIA MICONIÆ Garman.

On *Miconia laevigata*, Las Marías (Stevens) (34).

Miconia impetiolaris, Río Piedras, Sabana Llana (90, 94).

SEPTORIA MIKANIÆ Wint.

On *Mikania* sp., El Gigante (Stevens) (82).

SEPTORIA PETITIÆ Garman.

On *Petitia domingensis*, Río Piedras; Cabo Rojo (Stevens) (34).

SEPTORIA PETROSELINI var. APII Br. & Cav.

On *Apium graveolens*, Maricao, El Gigante, Aibonito (Stevens) (82).

SEPTORIA PITYROGRAMMÆ Garman.

On *Pityrogramma calomelanos*, Maricao (Stevens) (34).

SEPTORIA ROSÆ Desm.

On *Rosa* sp., Aibonito.

VERMICULARIA ATRICHA E. & E.

On *Petiveria alliacea*, Caguas (Millspaugh). Described in *Plantæ Utowanæ*, pub. 43. Field Columbian Museum, Bot. Ser., vol. 2, no. 1.

VERMICULARIA GRAMINICOLA West.

On dead cane stalk, Río Piedras (48).

ZYTHIACEÆ.

ASCHERSONIA ALEYRODIS Webber.

On *Aleyrodicus minimus*, the white fly of *Psidium guajava*, Río Piedras, Caguas, Bayamón, Espinosa; Utuado, Mayagüez, Jayuya (Stevens) (46, 82).

ASCHERSONIA FLAVO-CITRINA P. Henn.

On *Aleyrodicus minimus*, Río Piedras, Martín Peña (46).

ASCHERSONIA CUBENSIS B. & C.

On scale insects on *Citrus* spp., Pueblo Viejo, Espinosa, Bayamón; on *Policourca crocea*, Río Piedras; on *Zamia integrifolia* (Stevens) (82, 89, 96).

ASHERSONIA TURBINATA Beck.

On scale insects, Río Piedras, Vega Baja, Espinosa, Dorado, Pueblo Viejo, Coamo Springs. Host insects occur on a wide range of trees and shrubs, including *Citrus* spp., *Psidium*, *Casearia*, *Zamia*, *Eugenia*, *Erythrina*, etc. (46, 89, 96).

ZYTHIA PHASEOLI Stevens. In mss.

On *Phaseolus adenanthus*, Porto Rico (Stevens).

LEPTOSTROMATACEÆ.

LEPTOTHYRIUM POMI (M. & F.) Sacc.

On *Citrus sinensis*, Bayamón. Found in sterile condition only (89, 96).

MELASMIA COCCOLOBIÆ Stevens.

On *Coccolobis* sp., Maricao (Stevens) (82).

MELASMIA INGÆ Stevens.

On *Inga laurina*, Las Marías (Stevens) (82).

EXCIPULACEÆ.

EPHELIS MEXICANA Fr.

See *Balansia hypoxylon*.

MELANCONIACEÆ.

COLLETOTRICHUM COFFEANUM Noack.

On *Coffea arabica*. Reported by Cook in Tropical Plant Diseases, p. 166 (98).

COLLETOTRICHUM CRADWICKII Bahnerft.

On *Theobroma cacao*, Mayagüez (Fawcett) (27).

COLLETOTRICHUM CURVISETUM Stevens.

On *Hura crepitans*, Canóvanas; Añasco, Mayagüez (Stevens) (82).

COLLETOTRICHUM ERYTHRINÆ E. & E.

On *Pithecolobium unguis-cati*, Coamo, Boquerón, Guánica, Guajibo, Mona, Desecheo (Stevens) (82).

COLLETOTRICHUM FALCATUM Went.

On *Saccharum officinarum*, Río Piedras, Fajardo, Yauco, Canóvanas, Yabucoa, Carolina, Las Monjas, Ponce, Fortuna. For the most part on dead and dying leaves and stalks, but occasionally as a wound parasite of the stalk. (38, 40, 48, 91, 94, 105).

COLLETOTRICHUM GLEOSPORIOIDES Penz.

On *Citrus* spp., Río Piedras, Pueblo Viejo, Espinosa, Manatí, Bayamón, Sabana Llana, Vega Baja, Santana. Causing leaf spot, fruit spot and rot, tear staining of fruit, and withertip of terminal branches and twigs (15, 23, 26, 89, 94, 96, 98).

Mangifera indica, Río Piedras (23, 89, 94).

COLLETOTRICHUM HIGGINSCANUM Sacc.

On *Brassica rapæ*, Río Piedras.

COLLETOTRICHUM LAGENARIUM (Pers.) E. & H.

On *Cucumis sativus*, Río Piedras.

Cucurbita melo, Río Piedras (90).

COLLETOTRICHUM LINDEMUTHIANUM (Sacc & Magn.) Scrib.

On *Phaseolus vulgaris*, Río Piedras (90, 94).

COLLETOTRICHUM LINEOLA Cda.

On *Holcus halepense*, Sabana Llana.

Holcus sorghum, Trujillo Alto (94).

COLLETOTRICHUM LOBELLE Stevens.

On *Lobelia assurgens* var. *Portoricensis*, Maricao (Stevens) (82).

COLLETOTRICHUM NIGRUM E. & H.

On *Capsicum annuum*, Río Piedras. Causing a rot of the fruit (90).

COLLETOTRICHUM OMNIVORUM Hals.

On *Pandanus* sp., Sabana Llana, Río Piedras; Caguas (Stevens) (82).

COLLETOTRICHUM PHILODENDRI P. Henn.

On *Philodendron krebsii*, Arecibo, Lares (Stevens) (82).

COLLETOTRICHUM PHOMOIDES (Sacc.) Ches.

On *Lycopersicum esculentum*, Río Piedras (90, 94).

COLLETOTRICHUM PIPERIS Stevens.

On *Piper umbellatum*, Río Piedras; Caguas (Stevens) (82).

GLEOSPORIUM HEMEROCALLIDIS E. & E.

On *Hymenocallis expansa*, Bayamón.

GLEOSPORIUM MANIHOT Earle.

On *Manihot utilissima*, Río Piedras.

Producing a die-back of terminal twigs (90).

GLEOSPORIUM MELONGENÆ E. & H.

On *Solanum melongena*, Río Piedras (36, 90).

GLEOSPORIUM MUSARUM Cke. & Mass.

On *Musa paradisiaca*, Río Piedras. Common in all parts of the Island.

GLÆOSPORIUM PIPERATUM E. & E.

On *Capsicum annuum*, Río Piedras (90, 94).

Capsicum frutescens, Pueblo Viejo.

GLÆOSPORIUM PSIDII G. Del.

See *Glomerella cingulata*.

GLÆOSPORIUM RUFOMACULANS (Berk.) Thüm.

See *Glomerella cingulata*.

GLÆOSPORIUM VANILLÆ Cke.

See *Glomerella cingulata*.

GLÆOSPORIUM VIOLÆ B. & Br.

On *Viola* sp., Mayagüez (Stevens) (82).

MELANCONIUM SACCHARI Mass.

On dead and dying sugar-cane stalks and leaf sheaths, Yabucoa, Río Piedras, Fortuna, Aguadilla, Fajardo, Canóvanas, Carolina, Juncos, Arecibo, Barceloneta, Caguas, Quebradillas, Utuado, Isabela, Añasco, Guánica, Vega Baja, Bayamón, Toa Baja (15, 22, 23, 38, 40, 41, 44, 47, 48, 91, 94, 105).

MELANCONIUM SACCHARINUM (?) Penz. & Sacc.

On *Bambusa vulgaris*, Trujillo Alto.

Cymbopogon citratus, Río Piedras.

Saccharum officinarum, Río Piedras, Mercedita, Fajardo (41, 44, 48, 105).

PESTALOZZIA COCCOLOBÆ E. & E.

On *Coccolobis uvifera*, Boquerón (Stevens) (82).

PESTALOZZIA FUNERA Desm.

On *Acrista monticola*, El Yunque (Stevens).

Chrysobalanus icaco, Santurce (Stevens).

Clusia rosea, Maricao (Stevens).

Hippocratea volubilis, Río Piedras.

Inga vera, Maricao (Stevens).

Musa paradisiaca, Rosario, Barros (Stevens).

Pithecolobium unguis-cati, Mona (Stevens).

Poinciana pulcherrima, Río Piedras; Mayagüez (Stevens) (82).

PESTALOZZIA GUEPINIA Desm.

On *Citrus* spp., Espinosa, Río Piedras (96).

Jambosa jambos, Pueblo Viejo.

Mangifera indica, Trujillo Alto, Río Piedras (94).

PESTALOZZIA PALMARUM Cke.

On *Acrocomia media*, Río Piedras, Espinosa.

Areca catechu, Río Piedras.

Cocos nucifera, Río Piedras, Santurce (39).

Phœnix reclinata, Aibonito (94).

MONILIACEÆ.

ACROSTALAGMUS ALBUS Pr.

On *Aphis* sp., on *Hibiscus esculentus*, *Cucumis sativus*, *Solanum melongena*, *Capsicum annuum*, *Palicourea* sp., *Eupatorium odoratum*, Río Piedras, Carolina, Comerío.

Corythaica monacha, on *Solanum melongena*, Río Piedras.

Sipha flava, on *Saccharum officinarum*, Río Piedras (46, 89).

ARTHIROBOTRYIS SUPERBA Cda.

On dead and dying sugar-cane leaves and on cane debris, Río Piedras, Gurabo (48).

ASPERGILLUS FLAVUS Link.

On *Pseudococcus sacchari*, Río Piedras, Patillas, Fajardo, Carolina, Guánica. A strain morphologically not distinguishable is common as a mold of tobacco, cloth, culture media, and other dead plant material. Also isolated from soil (46, 48, 96).

ASPERGILLUS NIGER Van Tiegh.

Isolated from soil. Also occurs occasionally as a citrus fruit rot, and on plant material in damp chambers (48, 96).

ASPERGILLUS ROSEUS Link.

Isolated from soil, Río Piedras.

ASPERGILLUS TERREUS Thom.

On musty tobacco, Porto Rico. Described by Thom in Amer. Jour. of Bot., v. 5, no. 2, Feb. 1918, pp. 85-90, including mention of its occurrence in Porto Rico.

BLASTOTRICHUM MICONIÆ Stevens.

On *Miconia levigata*, Maricao, Utuado, Aguas Buenas (Stevens) (82).

BOTRYTIS RILEYI Farl.

On *Laphygma frugiperda*, Río Piedras, Guánica (46).

CEPHALOSPORIUM LECANII Zimm.

On *Aspidiotus destructor*, on *Cocos nucifera*, Punta Cangrejos. *Coccus mangifera*, on *Mangifera indica*, Río Piedras.

Pseudococcus nipæ, on *Psidium guayaba*, and *Erythrina glauca*, Río Piedras.

CEPHALOSPORIUM LECANII Zimm.—*Continued.*

On *Saissetia hemispherica* on a wide range of trees and shrubs, Río Piedras, Espinosa, Bayamón, Vega Baja, Comerío, Sabana Llana (46, 96).

DIPLOSPORIUM ALBUM Bon. var. *fungicolum* Stevens.

On *Parodiella cayaponiæ* on *Cayaponia* sp., Utuado (Stevens) (82).

METARRHIZIUM ANISOPLIÆ (Metsch.) Sor.

On *Aphodius* sp., *Canthon* sp., *Dsyncinetus barbatus*, *Ligyrrus tumulosus*, *Metamasius hemipterus*, *Phyllophaga* spp., *Phytalus insularis*, *Strategus titanus*, and a number of undetermined Scarabæids, an earwig, and a roach, Río Piedras, Guánica, Fajardo, Santa Isabel, Sierra de Naguabo, Añasco (46, 78, 84, 105).

MONILIA SITOPHILA (Mont.) Sacc.

On dead sugar-cane debris after burning, Río Piedras. Common in all parts of the Island. Also observed at base of plants of *Gynerium sagittatum* and *Sabal causiarum* injured by fire (48).

MONOGRAMMIA MICONIÆ Stevens.

On *Miconia* sp., Yabucoa (Stevens) (82).

✓ MONOSPORIUM UREDINICOLUM Stevens.

On *Coleosporium ipomææ* on *Ipomæa batatas* (Stevens) (82).

OIDIUM LACTIS Fres.

Causing acetic fermentation of fruit juices, Río Piedras.

PELLICULARIA KOLEROGA Cooke.¹

On *Coffea arabica*, Moca, Mayagüez. Also reported by Fawcett on *C. arabica* var. *columnaris*, *C. abeokuta*, *C. laurentii*, *C. stenophylla*. This species is treated extensively in a number of publications (15, 23, 24, 28, 30, 31, 81, 82).

PENICILLIUM CRUSTACEUM L.

On dead plant material, Río Piedras (96).

PENICILLIUM DIGITATUM (Fr.) Sacc.

On fruit of *Citrus sinensis*, *C. decumana*, and *C. limonis*. Common in all citrus districts of the Island (58, 84, 89, 94, 96).

PENICILLIUM DIVARICATUM Thom.

Isolated from soil, Río Piedras.

PENICILLIUM ITALICUM Wehmer.

On fruit of *Citrus* spp. Not common (89, 96).

¹ See *Corticium koleroga*.

PENICILLIUM LILACINUM Thom.

Isolated from soil, Río Piedras.

PENICILLIUM LUTEUM Zukal.

Isolated from soil, Río Piedras.

PIRICULARIA GRISEA (Cke.) Sacc.

(*Piricularia oryzae* Cav.)

On *Oryza sativa*, Mayagüez (Thomas).

Syntherisma digitata, Río Piedras.

RAMULARIA AREOLA Atkin.

On *Gossypium barbadense* (20).

✓RAMULARIA COLEOSPORIÆ Sacc.

On *Colcosporium ipomæe* on *Ipomæa batatas* (6).

RAMULARIA CYLINDROSPORIOIDES Stevens. In mss.

On *Piper medium*, Porto Rico (Stevens).

SPICARIA COLORANS.

On *Theobroma cacao*, Fawcett (30).

SPOROTRICHUM GLOBULIFERUM Speg.

On insects (thrips, Drosophilid, leaf hoppers), Río Piedras, Bayamón, Espinosa (94).

TRICHODERMA LIGNORUM (Tode) Harz.

On dead and dying sugar-cane leaves, leaf-sheaths, and stalks, Río Piedras, Cambalache, Naguabo. Common everywhere (48, 94).

TRICHOHECIUM FUSARIOIDES Stevens.

On *Phyllachora peribebuyensis* on *Miconia* sp., Maricao (Stevens) (82).

VERTICILLIUM HETEROCLADUM Penz.

On insects (undet.), on *Ocotea leucoxydon* and *Nectandra* sp., Río Piedras (46).

DEMATIACEÆ.

ALTERNARIA DIANTHI S. & H.

On *Dianthus* sp., San Juan (94).

ALTERNARIA CITRI Pierce.

On *Citrus sinensis* (fruit), Pueblo Viejo, Bayamón, Río Piedras (84, 89, 96).

ALTERNARIA SOLANI (E. & M.) J. & G.

On *Datura suaveolens*, Barros, Coamo, Aguas Buenas (Stevens) (82).

Solanum tuberosum, Río Piedras.

ARTHRIUM SACCHARICOLA Stevenson.

On dead sugar-cane leaves, Río Piedras (48).

BASISPORIUM GALLARUM Moll.

On dead stalks and leaves of sugar-cane and other grasses, Juncos, Río Piedras (48).

BRACHYSPORIUM STEMPHYLIODES (Cd.) Sacc.

On *Anona montana*, Mayagüez (Stevens) (82).

CERCOSPORA ACHYRANTHES Syd.

On *Achyranthes aspera*, Guánica, Hormigueros, Bayamón (Stevens) (82).

CERCOSPORA ACROCOMIÆ Stevenson.

On *Acrocomia media*, Río Piedras, Espinosa (94).

CERCOSPORA ALTERNANTHERÆ E. & L.

On *Alternanthera portoricensis*, Yauco, Coamo (Stevens) (82).

CERCOSPORA AMARYLLIDIS Ell. & Ev.

On *Hymenocallis expansa*, Punta Cangrejos; Santurce, Caomo (Stevens) (104).

CERCOSPORA ATRICINCTA H. & W.

On *Crassina elegans*, Espinosa, Río Piedras (89).

CERCOSPORA BERNARDIÆ Stevens.

On *Bernardia bernardia*, Guánica (Stevens) (82).

CERCOSPORA BETICOLA Sacc.

On *Beta vulgaris* in var., Pueblo Viejo, Río Piedras (90, 94).

CERCOSPORA BIFORMIS Petch.

On *Passiflora sexflora*, Mayagüez (Stevens) (82).

CERCOSPORA BIXÆ A. & N.

On *Bixa orellana*, Mayagüez, Lares, Rosario (Stevens) (82).

CERCOSPORA BLOXAMI Beck. & Br.

On *Brassica arvensis*, Río Piedras.

Brassica integrifolia, Río Piedras.

Brassica japonica, Barranquitas.

Brassica juncea, Río Piedras (94).

Brassica Pe-tsai, Río Piedras.

Brassica rapa, Quebradillas, Bayamón (Stevens) (90, 104).

CERCOSPORA BORINQUENSIS Young.

On *Calapogonium orthocarpum*, Río Piedras, Mayagüez (Stevens) (104).

CERCOSPORA BRADBURYÆ Young.

On *Bradburya pubescens*, Río Piedras; Mayagüez, El Yunque, Dos Bocas, San Germán, Guayama, Jayuya, Hormigueros, Cabo Rojo, Rosario (Stevens) (104).

CERCOSPORA CAJANI P. Henn.

On *Cajanus indicus*, Río Piedras; Aguas Buenas, Aguada, Maricao, Añasco, Dos Bocas, Guayanilla, El Yunque, Hormigueros, Monte de Oro (Stevens) (90, 104).

CERCOSPORA CANESCENS Ell. & Mart.

On *Dolichos lablab*, Río Piedras.

Phaseolus lunatus, Río Piedras.

Phaseolus vulgaris, Río Piedras; Guayanilla (Stevens) (60, 90).

Vigna unguiculata, Garrochales.

CERCOSPORA CAPSICI H. & W.

On *Capsicum annuum*, Río Piedras, Pueblo Viejo, Trujillo Alto (90, 94).

CERCOSPORA CARBONACEA Miles.

On *Dioscorea alata*, Vega Alta, Cabo Rojo, Vega Baja, Añasco (Stevens) (60, 61).

CERCOSPORA CASEARIAE Stevens.

On *Casearia guianensis*, Río Piedras; Rosario, Corozal, Mayagüez (Stevens).

Casearia ramiflora, Villa Alba, Caguas, El Yunque, Quebradillas, Utuado, San Germán, Cataño, Martín Peña, Mayagüez, Aguada, Agnadilla, Maricao, Vega Baja, Bayamón, Naguabo, Jayuya (Stevens).

Casearia sylvestris, Río Piedras, Martín Peña, Sabana Llana; Mayagüez, Coamo, Río Tanamá, Hormigueros, Lajas, Corozal, Quebradillas, Ponce, Monte de Oro, El Yunque (Stevens) (82).

CERCOSPORA CASSAVÆ E. & E.

On *Manihot utilisima*, Dos Bocas (Stevens) (104). Probably the same as *C. Henningsii*.

CERCOSPORA CHAMÆCRISTÆ E. & Keller.

On *Cassia alata*, Dos Bocas, Santurce, Añasco, Mayagüez (Stevens) (104).

Cassia occidentalis, Camuy, Espinosa.

CERCOSPORA CITRULLINA Cke.

On *Citrullus vulgaris*, Punta Cangrejos, Río Piedras, Pueblo Viejo (36, 84, 90).

CERCOSPORA COFFEICOLA B. & C.

(*C. coffeæ* Zimm.)

On *Coffea arabica*, Espinosa, Río Piedras; Añasco, Maricao (Stevens) (27, 31, 60).

CERCOSPORA CONSPICUA Earle.

On *Cleome spinosa*, Comerío; Mayagüez (Stevens) (21, 104).

CERCOSPORA CRUENTA Sacc.

On *Phaseolus lunatus*. Coll. N. Y. Bot. Garden.

Vigna unguiculata, Río Piedras (90, 94).

CERCOSPORA CUCURBITÆ E. & E.

On *Lagenaria leucantha*, Río Piedras (90).

CERCOSPORA CUCURBITICOLA P. Henn.

On *Cayaponia* spp., Maricao, Rosario (Stevens) (82).

CERCOSPORA DENSISIMA Speg.

On *Sida* sp., Mona Island (Stevens) (104).

CERCOSPORA FLAGELLARIS E. & M.

On *Phytolacca icosandra*, Maricao (Stevens) (82).

CERCOSPORA GILBERTII Speg.

On *Iresine panniculata*, El Alto de la Bandera (Stevens) (82).

CERCOSPORA GOSSYPINA Cke.

On *Gossypium barbadense*, Carolina.

CERCOSPORA GUANICENSIS Young.

On *Guilandina crista*, Guánica (Stevens) (104).

CERCOSPORA HENNINGSII Allesch.

On *Manihot utilissima*, Bayamón, Moca, Pueblo Viejo, Martín Peña; Hormigueros (Stevens) (60, 90, 94).

✓ CERCOSPORA HIBISCI T. & Earle.

On *Hibiscus esculentus*, Río Piedras; Quebradillas, Aguadilla, Cabo Rojo (Stevens) (60, 90, 94).

Hibiscus tiliaceus, Camuy; Rosario, Dos Bocas, Las Marías, Maricao (Stevens) (104).

CERCOSPORA HURÆ Stevens.

On *Hura crepitans*, Mayagüez, Añasco (Stevens) (82).

CERCOSPORA HYDROPIPERIS (Thüm.) Speg.

On *Persicaria punctata*, Río Piedras, Mayagüez; Utuado, Coamo, Corozal, Ciales (Stevens) (104).

CERCOSPORA LACTUÆ Stevenson.

On *Lactuca sativa*, Río Piedras (90, 94).

CERCOSPORA LEPIDII Peck.

On *Lepidium virginicum*, Espinosa; Mona Island (Stevens) (104).

CERCOSPORA LONGIPES Butler.

On *Saccharum officinarum*, Río Piedras (48, 105).

CERCOSPORA MALACHRÆ Heald & Wolf.

(Cercospora malachræ Young).

On *Malachra rotundifolia*, Río Piedras; San Sebastián, Ponce, Yauco, Guánica, San Germán, Vega Baja (Stevens) (104).

CERCOSPORA MARICAOENSIS Young.

On *Teramnus uncinatus*, Maricao, Dos Bocas, Cabo Rojo (Stevens) (104).

CERCOSPORA MIKANIACOLA Stevens.

On *Mikania* sp., Utuado, Aguada, Maricao (Stevens) (82).

CERCOSPORA MUCUNÆ Syd.

On *Mucuna pruriens*, Utuado, Dos Bocas, Mayagüez, Añasco, Rosario, Monte Alegre (Stevens) (104).

Stizolobium atcrinium, Río Piedras.

Stizolobium sp., Río Piedras, Espinoša, Vega Baja.

CERCOSPORA NICOTIANÆ E. & E.

On *Nicotiana tabacum*, Mayagüez, Bayamón, Espinosa, Sabana Llana: Quebradillas, Caguas, Ciales, Dos Bocas (Stevens) (60, 94).

CERCOSPORA ORYZÆ Miy.

On *Oryza sativa* Río Piedras, Canóvanas.

CERCOSPORA PERSONATA (B. & C.) E.

On *Arachis hypogea*, Río Piedras, Pueblo Viejo (15, 20, 90, 94).

CERCOSPORA PISA-SATIVÆ Stevenson.

On *Pisum sativum*, Río Piedras (90).

CERCOSPORA PHYLLITIDIS Hume.

On *Polypodium* sp., Barros (Stevens) (104).

CERCOSPORA PORTORICENSIS Earle.

On *Piper aduncum*, Río Piedras, Camuy; Mayagüez (Heller; Peñuelas, Juana Díaz, Coamo, Añasco, Ciales, Corozal, Adjuntas, Jájome Alto, Coamo Springs, Arecibo (Stevens) 19, 82).

Piper hispidum, Bayamón: Maricao, Rosario (Stevens) (104).

Piper peltatum, Río Piedras.

Piper umbellatum, Maricao, Arecibo (Stevens) (82).

Piper sp., Río Piedras, Martín Peña, Palo Seco.

CERCOSPORA RICINELLA Sacc. & Berl.

On *Ricinus communis*, Palo Seco, Naguabo, Espinosa; Jayuya, Yauco, Peñuelas, Utuado, Coamo (Stevens) (82, 94).

CERCOSPORA RIGOSPORA Atks.

On *Solanum nigrum*, Río Piedras.

CERCOSPORA ROSICOLA (Pass.) Sacc.

On *Rosa*, spp., Garrochales, Espinosa, Arecibo, Río Piedras; Maricao (Stevens) (89, 94, 104).

CERCOSPORA SECHLÆ Stevenson. (In ed.)

On *Sechium edule*, Río Piedras, Barceloneta (36, 90).

CERCOSPORA SESAMI Zimm.

On *Sesamum orientale*, Garrochales, Río Piedras (90).

CERCOSPORA SIMULATA E. & E.

On *Cassia alata*. Coll. N. Y. Bot. Garden. Probably the same as *C. chamæcristæ*.

CERCOSPORA STEVENSII Young.

On *Andira jamaicensis*, Dos Bocas (Stevens) (104).

CERCOSPORA THOUINLÆ Stevens.

On *Thouinia striata*, Maricao (Stevens) (82).

CERCOSPORA TRICHIOPHILA Stevens.

On *Helicteres jamaicensis*, Peñuelas (Stevens).

Solanum torvum, Mayagüez, Utuado, Vega Baja, Río Tánamá, Monacillo, Manatí, Mona Island (Stevens).

Solanum verbascifolium, Río Piedras; El Gigante, El Alto de la Bandera (Stevens) (82).

CERCOSPORA TRICHOSTIGMÆ Stevens.

On *Trichostigma octandra*, Barceloneta, Río Piedras (Stevens) (82).

CERCOSPORA VAGINÆ Kruger.

On *Saccharum officinarum*, Cambalache, Arecibo, Fajardo, Río Piedras, Los Caños (38, 48, 94, 105).

CERCOSPORA VIGNÆ Racib.

On *Vigna unguiculata*, Río Piedras (84, 90).

CERCOSPORA VIOLÆ Sacc.

On *Viola* sp., Campo Alegre, Río Piedras, Vega Baja (89).

CERCOSPORIDIUM HELLERI Earle.

On *Sphenoclea zeylanica*, Canóvanas; Mayagüez (Stevens) (19, 82).

CERCOSPORIUM BETICOLA (?).

On "beans" as a root rot, P. R. Agri. Exp. Sta. Report 1903. Given by Cook (Dis. of Tropical Plants, p. 230) as *C. urticola*.

CLADOSPORIUM CALOTROPIDIS Stevens.

On *Calotropis procera*, Guayanilla (Stevens) (82).

CLADOSPORIUM (?) CITRI Mass.

On *Citrus aurantium*, Trujillo Alto, Sabana Llana, Naguabo, Bayamón.

Citrus decumana, Río Piedras, Palo Seco, Sabana Llana, Bayamón, Vega Baja, Espinosa, Manatí, Barceloneta, Garrochales, Santana, Naguabo, Mayagüez, Pueblo Viejo.

Citrus limonia, Bayamón, Pueblo Viejo, Palo Seco, Sabana Llana.

Citrus nobilis, Bayamón.

Citrus sinensis, Trujillo Alto, Bayamón.

An extended bibliography (6, 8, 15, 20, 22, 23, 27, 84, 88, 89, 93, 94, 96, 99).

CLADOSPORIUM FULVUM Cke.

On *Lycopersicum esculentum*, Río Piedras; Cabo Rojo, Utuado, Florida, Caguas (Stevens) (36, 82, 90, 94).

Solanum torvum, Río Piedras.

CLADOSPORIUM GUANICENSIS Stevens.

On *Argemone mexicana*, Palo Seco; Guánica, Coamo (Stevens) (82).

CLADOSPORIUM HERBARUM Link.

On *Canna* sp., Río Piedras; Mayagüez, Aibonito (Stevens).

Canna coccinia, Villa Alba (Stevens).

Canna glauca, Utuado (Stevens).

Canavalia obtusifolia, Boquerón (Stevens) (82).

Dead and drying flowers, leaves and stems of *Zea Mays*, *Sesbania grandiflora*, *Bauhinia* sp., *Saccharum officinarum*, *Solanum melongena*, Bayamón, Río Piedras, Trujillo Alto (48, 96).

CLADOSPORIUM HYPOPHLOEM B. & C.

On *Thouinia* sp. Coll. N. Y. Bot. Garden (Heller).

CLADOSPORIUM MANSONI Cast. and Chalmers.

As a cause of a human skin disease, black ringworm (49).

CLADOSPORIUM MIKANIE Stevens.

On *Mikania* sp., Las Marías (Stevens) (82).

ELLISIELLA PORTORICENSIS Stevens.

On *Clusia rosca*, Arecibo, Desecheo, Lajas, Hormigueros (Stevens) (82).

HAPLOGRAPHIUM ECHINATUM (Riv.) Sacc.

Isolated from soil, Río Piedras.

HAPLOGRAPHIUM PORTORICENSE Stevens. In mss.

On *Canna coccinia*, Porto Rico (Stevens).

HELMINTHOSPORIUM CALADII Stevens.

On *Caladium bicolor*, Guaynabo, Río Piedras; Mayagüez, Manatí, Añasco (Stevens) (82).

HELMINTHOSPORIUM GLABROIDES Stevens.

On *Perisporium portoricense* on *Calophyllum calaba* (Stevens) (82).

HELMINTHOSPORIUM MAYAGUEZENSE Miles.

On *Paspalum conjugatum*, Río Piedras; Mayagüez, Dos Bocas, San Germán, Añasco, Maricao (Stevens) (60, 61).

HELMINTHOSPORIUM RAVENELII Berk & Curt.

On *Sporobolus indicus*, Río Piedras; Jájome Alto, El Alto de la Bandera (Stevens) (82).

HELMINTHOSPORIUM SACCHARI Butler.

On *Saccharum officinarum*, Río Piedras, Camuy, Cambalache, Quebradillas, Barceloneta (48, 94, 105).

HELMINTHOSPORIUM SECHICOLA Stevenson. (In ed.)

On *Sechium edule*, Camuy (90).

HELMINTHOSPORIUM SPICULIFERUM E. & E.

On *Thrinax* sp., Utuado (Stevens) (82).

HELMINTHOSPORIUM STAHLII Stevens.

On *Passiflora foetida*, Mayagüez, Luquillo, Naguabo (Stevens) (82).

HELMINTHOSPORIUM TURCINUM Pass.

On *Zea mays*, Mayagüez, Río Piedras (94).

HELMINTHOSPORIUM VARRONLÆ Stevens.

On *Varronia* sp., Florida (Stevens) (82).

HORMIACTELLA SACCHARI Johnston.

On dead leaves of sugar cane and other grasses, Río Piedras, Naguabo, Ponce, Yauco, Canóvanas, Mameyes, Añasco (48).

MACROSPORIUM PORRI Ell.

On *Allium cepa*, San Juan, Río Piedras.

MICROCLAVA COCCOLOBLÆ Stevens.

On *Coccoloba diversifolia*, Maricao (Stevens) (82).

MICROCLAVA MICONLÆ Stevens.

On *Miconia lavigata*, Aguas Buenas (Stevens) (82).

NAPICLADIUM FUMAGO Speg.

On *Miconia* sp., Arecibo (Stevens) (82).

PASSALORA CECROPIÆ Stevens.

On *Cecropia peltata*, Arecibo (Stevens) (82).

PERICONIA PYCNOSPORA Fres.

On *Xanthosoma* sp. (*Yautía*). Reported from Mayagüez (7, 8, 15, 90).

PERICONIA SACCHARI Johnston.

On dead and dying sugar-cane leaves, Río Piedras, Fajardo (48).

SEPTONEMA SACCHARI Johnston & Stevenson.

On dead sugar-cane leaves and stalks, Río Piedras (48).

TETRACOCOSSIPORIS SACCHARI Stevenson.

On sugar-cane debris, Río Piedras (48).

TETRAPLOA ARISTATA B. & Br.

On dead sugar-cane stalks and leaves, Río Piedras (48).

THIELAVIOPSIS PARADOXA (De Seynes) V. Hohn.

On *Ananas sativus*, causing a fruit rot occurring in all sections of the Island (94).

Cocos nucifera, causing a trunk-bleeding disease (Fawcett, 26).

Saccharum officinarum, Río Piedras, Yabucoa, Canóvanas, Fajardo, Arecibo (23, 26, 38, 40, 41, 44, 48, 87, 91, 94, 105).

TRIPOSPORIUM STELLIGERUM Speg.

On *Anona montana*, Mayagüez (Stevens).

Chiococca alba, Vega Baja (Stevens).

Myrcia deflexa, El Alto de la Bandera (Stevens).

Rudolphia volubilis, Maricao, El Yunque (Stevens).

Winterana canella, Guayanilla (Stevens).

Zamia integrifolia (Stevens) (82).

VERTICILLADIUM GRAMINICOLUM Johnston & Stevenson.

On dead cane leaves, Río Piedras (48).

ZYGOSPORIUM OSCHIOIDES Mont.

On *Pucciniopsis carica* on *Carica papaya*, Río Piedras (60, 94).

STILBACEÆ.

DENDROGRAPHIUM ATRATUM Masee.

On dead wood, Mameyes.

GIBELLULA ARACHNOPHILA Sacc.

On spiders of the family *Attida*, Río Piedras, Vega Baja, Espinosa (46).

GRAPHIUM SACCHARI Speg.

On dead sugar-cane stalks, Río Piedras, Gurabo (48).

GRAPHIUM SQUARROSUM Ell. & Langl.

On dead bamboo, Río Piedras.

ISARIA BARBERI Giard.

(Cordyceps Barberi Giard.)

On larvæ of *Diatraea saccharalis*, Río Piedras, Guánica, Santa Isabel, Patillas (46).

ISARIA SAUSSUREI Cooke.

On *Bothriocera* sp., on *Palicourea crocea*, Río Piedras.

ISARIA UMBRINA Pers.

On dead wood, Río Piedras.

ISARIOPSIS GRISEOLA Sacc.

On *Phaseolus lunatus*, Río Piedras; Mayagüez (Thomas).*Phaseolus vulgaris*, Río Piedras, Barceloneta, Camuy; Jayuya, Mayagüez, Dos Bocas (Stevens) (60, 90, 94).

PODOSPORIUM PALLIDA Pat.

On *Meliola amphitricha* on *Randia aculeata*. Coll. N. Y. Bot. Garden.

STILBELLA FLAVIDA Lind.

(Stilbum flavidum Cooke.)

On *Bryophyllum pinnatum*, Maricao (Stevens).*Citrus sinensis*, *Cissus sicyoides*, *Commelina* sp., *Inga vera*, *Mangifera indica* (Fawcett) (31).*Coffea arabica*, Mayagüez; Dos Bocas, Jayuya, Ponce, Monte de Oro, Maricao, El Gigante, Arecibo-Lares (Stevens). Frequently reported by Fawcett and others (6, 8, 15, 20, 23, 24, 26, 30, 31, 81, 82). Also noted by T. C. McClelland on *C. excelsa*, *C. macrocarpa*, *C. perrieri*, *C. robusta*, *C. sp. var. Quillou*; and by Fawcett on *C. stenophylla*, *C. arabica* var. *Columnaris*, *C. laurentii* (30).*Elephantopus mollis*, Jayuya, Monte de Oro (Stevens).*Piper macrophyllum*, Monte de Oro (Stevens).*Psychotria uliginosa*, El Alto de la Bandera (Stevens).*Synedrella nodiflora*, Ponce (Stevens) (82).

TUBERCULARIACEÆ.

AEGERITA WEBBERI Faw.

On *Aleyrodicus minimus* on *Psidium guayaba*, Río Piedras, Espinosa (46).

EPICOCCUM NEGLECTUM Desm.

On *Cestrum* sp., Cabo Rojo (Stevens) (82).

FUSARIUM CUBENSIS Er. Sm.

On *Musa paradisiaca*, Isabela, Mayagüez, Río Piedras, Moca. Causing a serious trunk rot (10, 11, 32).

FUSARIUM LIMONIS Bri.

On *Citrus decumana* (*C. limonis* root), Espinosa, Garrochales, Bayamón, Pueblo Viejo, Sabana Llana (94, 96).

FUSARIUM RADICICOLA Wollenw.

On *Musa sapientum*. Mentioned by Pratt in Jour. Agri. Research, v. 3, no. 9, p. 299, in connection with a study of the fungus on other hosts.

FUSARIUM SOLANI (Mart.) Sacc.

On *Vanilla planifolia*, Mayagüez (Thomas).

ILLOSPORIUM COMMELINÆ Stevens.

On *Commelina longicaulis*, Caguas, Rosario, Las Marías, Guayánilla, Hormigueros (Stevens).

Commelina virginica, Aguada, El Gigante (Stevens) (82).

MICROCERA FUJIKUROI Miy. & Saw.

On *Chrysomphalus aonidium* on *Citrus decumana*, Pueblo Viejo. *Lepidosaphes beckii* on *Citrus decumana*, and *C. sinensis*, Bayamón, Mayagüez, Pueblo Viejo.

Pseudoanidia articulatus, on *Citrus decumana*, Pueblo Viejo (85, 89).

MYROTHECIUM VERRUCARIA (A. & S.) Dtm.

On dead sugar-cane leaves and dead citrus twigs, Río Piedras (48, 96).

PUCCINIOPSIS CARICÆ Earle.

On *Carica papaya*, Río Piedras; Guánica, Vega Baja, Mona (Stevens) (20, 60, 94).

SPEGAZZINIA ORNATA Sacc.

On dead sugar-cane leaves and other plant debris, Río Piedras, Ponce, Santa Isabel, Cortada, Sabana Llana (48).

TUBERCULARIA COCCICOLA Stevenson.

On *Lepidosaphes beckii* and *Chionaspis citri*, on *Citrus decumana* and *C. sinensis*, Espinosa, Río Piedras, Pueblo Viejo, Bayamón (94, 96).

TUBERCULARIA SACCHARICOLA Speg.

On dead sugar-cane stalks. Río Piedras. Las Monjas. Carolina (48).

STERILE MYCELIA.

HIMANTIA STELLIFERA Johnston.

On *Andropogon bicornis*, Río Piedras.

Cymbopogon citratus, Río Piedras.

Cyperus sphacelatus, Río Piedras.

Dichromena ciliata, Río Piedras.

HIMANTIA STILLIFERA Johnston.—Continued.

On *Heliotropium indicum*, Río Piedras.

Panicum laxum, Río Piedras.

Panicum maximum, Río Piedras.

Paspalum paniculatum, Río Piedras.

Paspalum plicatulum, Río Piedras.

Paspalum secans, Río Piedras.

Paspalum millegrana, Río Piedras.

Paspalum virgatum, Río Piedras.

Saccharum officinarum, Río Piedras, Cambalache, Juncos, Carolina, Guayama, Camuy, Isabela, Humacao, Peñuelas (23, 48, 91, 94, 105).

Rynchospora cyperoides, Río Piedras.

Sporobolus indica, Río Piedras.

Stenotaphrum secundatum, Río Piedras.

Syntherisma digitata, Río Piedras.

Zea mays, Toa Baja.

OZONIUM STUPOSUM Pers.

Reported from the Schwanecke collection (50).

RHIZOCTONIA SOLANI Kühn.

See *Corticium vagum*.

SCLEROTIUM BATATICOLA Taub.

On *Ipomœa batatas*, Río Piedras. Charcoal rot.

SCLEROTIUM GRISEUM Stevenson. (In ed.)

On *Musa paradisiaca*, Río Piedras.

Saccharum officinarum, Río Piedras, Hormigueros, Las Monjas (48).

Zea mays, Río Piedras.

SCLEROTIUM PORTORICENSE Stevens.

On *Capriola dactylon*, Río Piedras; Santurce (Stevens) (82).

SCLEROTIUM ROLFII Sacc.

On *Artoëarpus communis*, Bayamón.

Bambusa vulgaris, Río Piedras.

Capsicum annuum, Río Piedras (94).

Citrus decumana, Bayamón. Sabana Llana (94, 96).

Daucus carota, Río Piedras.

Lycopersicum esculentum, Río Piedras.

Phaseolus vulgaris, Río Piedras.

Saccharum officinarum, Río Piedras, Las Monjas, Guaynabo, Hormigueros (38, 48, 94, 105).

Solanum melongena, Río Piedras (90, 94).

SCLEROTIUM ROLFSSII Sacc.—Continued.

On *Triticum vulgare*, Mayagüez (Thomas).*Vicia faba*, Río Piedras.

FUNGI OF UNKNOWN AFFINITY.

GRAPHIOLA CONGESTA B. & Rav.

Coll. N. Y. Bot. Garden. Host unknown.

GRAPHIOLA PHENICIS (Moug.) Port.

On *Inodes causiæ*, Jayuya (Stevens) (82).*Phœnix dactylifera*, Santa Rita, Santurce, San Juan, Palo Seco (20, 81, 82, 89, 94).*Thrinax præceps*, Utuado (Stevens) (82).

PARASITIC ALGAE.

CHROOLEPIDÆ.

CEPHALEUROS VIRESCENS Kunze.

*(Cephaleuros mycoidea Karst.)**(Cephaleuros candelabrum Lagerh.)*On *Achras zapota*, Río Piedras.*Acrodichlidium salicifolium*, Hormigueros (Stevens).*Alchornea latifolia*, Río Piedras.*Artocarpus incisa*, Espinosa.*Cajanus indicus*, Vega Baja, Río Piedras (37).*Camphora officinalis*, Naguabo.*Casearia* sp., Río Piedras.*Cestrum laurifolium*, Mayagüez (Stevens) (82).*Chrysobalanus icacao*, Espinosa.*Citrus aurantifolia*, Río Piedras, Sabana Llana (96).*Citrus aurantium*, Palo Seco, Manatí (96).*Citrus decumana*, Barceloneta, Trujillo Alto, Río Piedras (89, 96).*Citrus limonia*, Caguas, Campo Alegre (96).*Clusia rosea*, Naguabo.*Coccolobis diversifolia*, Maricao (Stevens) (82).*Cupania americana* (Stevens) (82).*Cydista aquinoctialis*, Río Piedras.*Dendropanax arborcum*, Río Tanamá (Stevens).*Eriobotrya japonica*, Naguabo.✓*Ficus lavigata*, Río Piedras.✓*Ficus nitida*, Río Piedras.

CEPHALEUROS VIRESCENS Kunze.—*Continued.*

✓ On *Ficus reptans*, Bayamón.

✓ *Hibiscus rosa-sinensis*, Río Piedras.

Inga laurina, Jájome Alto, Mayagüez (Stevens).

Inga vera, Río Piedras.

Jambosa jambos, Espinosa; Añasco (Stevens).

Lasiacis sorghoidea, Jájome Alto (Stevens) (82).

Lonicera japonica, Naguabo.

Mangifera indica, Río Piedras.

Meibomia axillaris, Río Piedras.

Miconia laevigata, Mayagüez (Stevens) (82).

Miconia impetiolaris, Bayamón.

Muehlenbeckia platyclada, Río Piedras.

Myrcia deflexa, Mayagüez (Stevens).

Nectandra patens (Stevens).

Ocotea leucoxydon, Mayagüez (Stevens).

Piper medium, Río Piedras.

Polyscias guilfoylei, Naguabo.

Psidium guayava, Río Piedras, Espinosa; Mayagüez (Stevens).

Somidesia lindeniana, Jájome Alto (Stevens) (82).

Theobroma cacao, Mayagüez.

Vanilla planifolia, Mayagüez (Thomas).

SUMMARY.

	Genera.	Species.
MYXOMYCETES -----	14	27
SCHIZOMYCETES -----	3	9
PHYCOMYCETES -----	10	17
ASCOMYCETES:		
SACCAROMYCETALES -----	1	3
PERISPORIALES -----	22	141
HYPOCREALES -----	25	34
DOTHIDIALES -----	4	21
SPHÆRIALES -----	38	95
HYSTERIALES -----	2	4
PEZIZALES -----	15	19
PHACIDIALES -----	1	2
BASIDIOMYCETES:		
USTILAGINALES -----	11	19
UREDINALES -----	20	161
AGARICALES—		
TREMELLACEÆ -----	3	8
CLAVARIACEÆ -----	1	2
THELEPHORACEÆ -----	11	41
HYDNACEÆ -----	3	9
POLYFORACEÆ -----	10	86
AGARICACEÆ -----	22	46
LYCOPERDALES -----	9	20
FUNGI IMPERFECTI:		
PHOMATALES -----	16	72
MELANCONIALES -----	4	31
MONILIALES—		
MONILLACEÆ -----	21	31
DEMATIACEÆ -----	24	104
STILBACEÆ -----	7	10
TUBERCULARIACEÆ -----	9	13
STERILE MYCELIA, misc -----	6	10
TOTAL -----	312	1,035

HOST INDEX.

A

- Abutilon hirtum
 - Puccinia heterospora
- Abutilon indicum
 - Puccinia heterospora
- Abutilon umbellatum
 - Phyllosticta hybiscina
- Acacia riparia
 - Ravenelia Stevensii
- Acalypha bisetosa
 - Meliola arecibensis
- Acalypha mosaica
 - Rosellinia bunodes
- Achras zapota
 - Cephaleuros virescens
- Achyranthes aspera
 - Cercospora achyranthes
- Acrista monticola
 - Auerswaldia palmicola
 - Meliola furcata
 - Pestalozzia funerea
- Acrocomia media
 - Cercospora acrocomiae
 - Pestalozzia palmarum
- Acrodiclidium salicifolium
 - Cephaleuros virescens
- Adiantum sp.
 - Meliola pteridicola
- Adiantum latifolium
 - Meliola pteridicola
 - Micropeltis manthæ (?)
 - Uredo gymnogrammes
- Adiantum tenerum
 - Phyllosticta adianticola
- Aegiphila martinicensis
 - Guignardia prominens
- Aeschynomene americana
 - Uredo aeschynomensis
- Agave rigida var. sissalana
 - Endothia Parryi
 - Lembosia agaves
- Ageratum conyzoides
 - Puccinia rosea
- Aklema petiolaris
 - Puccinia euphorbiæ
- Albizzia lebbbeck
 - Phyllosticta divergens
- Alchornea latifolia
 - Cephaleuros virescens
 - Olivea capituliformis
- Allium cepa
 - Macrosporium porri
 - Urocystis cepulæ
- Allophylus crassinervis
 - Meliola thouiniæ
- Alpinia antillarum
 - Heterothecium phyllocharis
 - Phyllachora renalmiæ
- Alternanthera portoricensis
 - Cercospora alternantheræ
- Alternanthera sessilis
 - Guignardia cephalariæ var. alternantheræ
- Amaranthus spinosus
 - Albugo bliti
- Amaranthus viridis
 - Albugo bliti
- Anomis caryophyllata
 - Meliola anomicola
- Amygdalus persica
 - Tranzschelia punctata
- Amyris elemifera
 - Meliola monensis

Ananas sativus
 Spegazzinia ornata
 Thielaviopsis paradoxa
Andira jamaicensis
 Cercospora Stevensii
 Meliola andiræ
 Physalospora andiræ
Andropogon bicornis
 Himantia stellifera
 Meliola panici
 Myriogenospora Bresadoleana
 Phyllachora luteo-maculata
 Tolyposporella Brunkii
Andropogon brevifolius
 Phyllachora graminis
 Uredo venustula
Andropogon leucostachyus
 Dothielæ atramentosa
 Meliola panici
 Phyllachora luteo-maculata
Aneimia sp.
 Meliola pteridicola
Aneimia adiantifolia
 Meliola pteridicola
Anona montana
 Brachysporium stemphyloides
 Meliola longipoda
 Triposporium stelligerum
Anthurium acaule
 Mycosphærella anthurii
Anthurium scandens
 Uredo anthurii
Apium graveolens
 Bacillus carotovorus
 Phyllosticta apii
 Septoria petroselini var. *apii*
Arachis hypogea
 Cercospora personata
 Uredo arachidis
Ardisia guadalupensis
 Meliola myrsinacearum

Argemone mexicana
 Cladosporium guanicensis
 Septoria chelidonii
Aristida portoricensis
 Balansia discoidea
 Dothichlæ aristidæ
Arracacia anthorrhiza
 Erysiphe polygoni
Arthrostyloidium sarmentosum
 Dimeriopsis arthrostylydicola
 Phyllachora graminis
Artocarpus camansi
 Uredo artocarpi
Artocarpus insisa
 Cephaleuros virescens
 Sclerotium Rolfsii
 Uredo artocarpi
 Zignoella algaphial
Asclepias curassavica
 Puccinia conerescens
 Uromyces Howeii
Asclepias nivea
 Puccinia conerescens
Avicennia nitida
 Meliola sepulta
Axonopus compressus
 Myriogenospora Bresadoleana
 Uredo paspalicola

B

Bambusa vulgaris
 Melanconium saccharinum
 Uredo paspalicola
Banisteria laurifolia
 Meliola rectangularis
Bauhinia pauletia
 Cladosporium herbarum
 Uromyces jamaicensis
Begonia decandra
 Stilbella flavida
Bernardia bernardia
 Cercospora bernardiæ

- Beta vulgaris*
Cercospora beticola
Bidens leucantha
Entyloma guaraniticum
Sphærotheca humuli
Thecaphora pustulata
Uromyces bidenticola
Uromyces bidensis
Bidens pilosa
Uromyces bidenticola
Uromyces bidensis
Bidens reptans
Sphærotheca humuli
Bihai borinquena
Uredo heliconiæ
Bixa orellana
Cercospora bixæ
Phyllosticta bixina
Uredo bixæ
Blechum Brownei
Puccinia blechi
Bletia patula
Uredo nigropunctata
Boerhaavea erecta
Albugo platensis
Boerhaavea hirsuta
Albugo platensis
Borreria lævis
Meliola psychotriæ
Puccinia lateritia
Borreria ocimoides
Meliola psychotriæ
Borreria verticillata
Puccinia lateritia
Bradburya pubescens
Cercospora bradburyæ
Meliola bicornis
Bradburya virginiana
Meliola bicornis
Brassica arvensis
Cercospora bloxami
Brassica integrifolia
Albugo candida
Cercospora bloxami
Erysiphe polygoni
Brassica japonica
Cercospora bloxami
Brassica juncea
Bacillus carotovorus
Cercospora bloxami
Brassica napi
Cercospora bloxami
Brassica oleracea
Bacterium campestris
Brassica Pe-tsai
Cercospora bloxami
Brassica rapæ
Cercospora bloxami
Colletotrichum Higginscanum
Bromelia pinguin
Perisporium bromeliæ
Bryophyllum pinnatum
Stilbella flavida
Byrsonima crassifolia
Uredo notata
Byrsonima lucida
Meliola byrsonimæ
- C**
- Cæsalpinia pulcherrima*
Ravenelia Humphreyana
Cajanus indicus
Cephaleuros virescens
Cercospora cajani
Creonectria grammicospora
Megalonectria pseudotrichia
Nectria episphæria
Pleonectria megalonectria
Triblidium rufulum
Uromyces dolicholi
Caladium bicolor
Helminthosporium caladii

- Calathea lutea*
 Puccinia cannae
Calophyllum calaba
 Meliola calophylli
 Perisporium portoricense
Calopogonium orthocarpum
 Cercospora borinquensis
 Meliola bicornis var. *calopogonii*
Calotropis procera
 Cladosporium calotropidis
Camphora officinalis
 Cephaleuros virescens
Campyloneurum sp.
 Corynelia pteridicola
Canavalia ensiformis
 Cerotelium canavaliæ
Canavalia gladiata
 Cerotelium canavaliæ
 Cladosporium herbarum
Canavalia obtusifolia
 Cladosporium herbarum
Canna coccinea
 Cladosporium herbarum
 Haplographium portoricense
 Puccinia cannae
Canna edulis
 Periconia pycnospora
Canna glauca
 Cladosporium herbarum
 Puccinia cannae
Canna indica
 Myrmæcium cannae (?)
Capriola dactylon
 Puccinia cynodontis
 Sclerotium portoricense
Capsicum annuum
 Cercospora capsici
 Cladosporium herbarum
 Colletotrichum nigrum
- Capsicum annuum*—*Cont.*
 Gloeosporium piperatum
 Pestalozzia funerea
 Sclerotium Rolfsii
Capsicum baccatum
 Meliola capsicola
Capsicum frutescens
 Gloeosporium piperatum
Cardiospermum microcarpum
 Puccinia arechavelatæ
Carica papaya
 Colletotrichum falcatum
 Glomerella cingulata
 Pucciniopsis caricæ
 Zygosporium oschioides
Casearia sp.
 Cephaleuros virescens
 Meliola paulliniæ
Casearia aculeata
 Meliola paulliniæ
Casearia arborea
 Meliola paulliniæ
Casearia guianensis
 Cercospora caseariæ
Casearia ramiflora
 Cercospora caseariæ
 Meliola paulliniæ
Casearia sylvestris
 Cercospora caseariæ
 Meliola paulliniæ
Cassia alata
 Cercospora chamærista
 Cercospora simulata
Cassia emarginata
 Ravenelia portoricensis
Cassia fistula
 Phyllachora cassiæ
Cassia occidentalis
 Cercospora chamærista
 Erysiphe polygoni

- Cassia quinquangulata*
 Meliola toruloidea
 Uredo lutea
Cassia tora
 Erysiphe polygoni
Cayaponia americana
 Cercospora cucurbiticola
 Dimerium cayaponiæ
 Uromyces Hellerianus
Cayaponia racemosa
 Meliola cucurbitacearum
 Uromyces Hellerianus
Cecropia peltata
 Passalora cecropiæ
Cenchrus carolinianus
 Puccinia cenchri
Cenchrus echinatus
 Phyllachora sphærosperma
 Puccinia cenchri
Cenchrus myosuroides
 Phyllachora sphærosperma
Cenchrus viridis
 Puccinia cenchri
Centella asiatica
 Septoria asiatica
Cestrum sp.
 Epicoccum neglectum
Cestrum laurifolium
 Cephaleuros virescens
 Meliola gesneriæ
 Uromyces cestri
Cestrum macrophyllum
 Meliola gesneriæ
 Uromyces cestri
Chaetochloa geniculata
 Puccinia substriata
Chaetochloa setosa
 Puccinia cameliæ
Chamæcrista aeschynomene
 Erysiphe polygoni
 Ravenelia cassiæcola
Chamæcrista diphylla
 Erysiphe polygoni
Chamæcrista glandulosa
 Meliola chamæcristæ
 Ravenelia cassiæcola
Chamæcrista granulata
 Meliola chamæcristicola
Chamæsyce brasiliensis
 Microsphæra euphorbiæ
 Uromyces proëminens
Chamæsyce hirta
 Uromyces proëminens
Chamæsyce hypericifolia
 Microsphæra euphorbiæ
 Uromyces proëminens
Chamæsyce prostrata
 Uromyces proëminens
Chiococca alba
 Meliola chiococcæ
 Meliola psychotriæ
 Triposporium stelligerum
Chloris petraea
 Dothichlœ atramentosa
 Meliola panici
Chrysobolanus icaco
 Cephaleuros virescens
 Mycosphærella chrysobalani
 Pestalozzia guépinia
Chrysophyllum sp.
 Meliola ocoteicola
Cissus acida
 Mykosyrinx cissi
Cissus erosa
 Mykosyrinx cissi
Cissus sieyoides
 Endophyllum circumscriptum
 Meliola Merrillii
 Mykosyrinx cissi
 Phyllosticta cissicola
 Stilbella flavida

- Citrullis vulgaris*
Cercospora citrullina
Diplodia sp.
Citrus aurantifolia
Cephaleuros virescens
Diplodia natalensis
Penicillium digitatum
Citrus aurantium
Cephaleuros virescens
Cladosporium citri
Stereum coffearum
Citrus decumana
Aspergillus flavus
Aspergillus niger
Capnodium citri
Cephaleuros virescens
Cladosporium citri
Cladosporium herbarum
Colletotrichum gloeosporioides
Corticium confluens
Corticium salmonicolor
Daldinia concentrica
Diplodia natalensis
Graphis afzelii
Hypoxyton fuscopurpurea
Lecanidion cyaneum
Leptothyrium pomi
Myrthecium verrucaria
Nectria episphearia
Penicillium crustaceum
Penicillium digitatum
Penicillium italicum
Peniophora cinerea
Peniophora flavido-alba
Pestalozia guepinia
Phomopsis citri
Polystictus occidentalis
Polystictus pinsitus
Rhizopus nigricans
Schizophyllum commune
Sclerotium Rolfsii
- Citrus decumana—Cont.*
Septobasidium lilacinum
Stereum albo-badium
Stictis radiata
Tryblidium rufulum
Ustilina vulgaris
Citrus limonis
Capnodium citri
Cephaleuros virescens
Cladosporium citri
Diplodia natalensis
Penicillium digitatum
Citrus nobilis
Cladosporium citri
Diplodia natalensis
Penicillium digitatum
Citrus sinensis
Alternaria citri
Aspergillus niger
Capnodium citri
Cephaleuros virescens
Cladosporium citri
Colletotrichum gloeosporioides
Corticium salmonicolor
Diplodia natalensis
Leptothyrium pomi
Penicillium digitatum
Peniophora cinerea
Phomopsis citri
Rhizopus nigricans
Schizophyllum commune
Stictis radiata
Stilbella flava
Ustilina vulgaris
Cleome pentaphylla
Cercospora conspicua
Clibadium erosum
Endophyllum decoloratum
Clidemia hirta
Meliola melastomacearum

- Clidemia strigillosa*
Meliola melastomacearum
Clitoria cajanifolia
Uromyces neurocarpi
Clitoria rubiginosa
Uromyces neurocarpi
Clusia gundlachii
Mycosphærella guttiferæ
Guignardia clusiæ
Clusia minor
Meliola clusiæ
Clusia rosea
Cephaleuros virescens
Clithris clusiæ
Clithris minor
Dimerium melioloides
Ellisiella portoricensis
Mycosphærella clusiæ
Pestalozzia funerea
Phyllosticta clusiæ
Uredo clusiæ
Coccocypselum repens
Meliola glabra var. *psychotriæ*
Coccolobis sp.
Cephaleuros virescens
Melasmia coccolobiæ
Meliola prætervisa
Phyllosticta coccolobæ
Coccolobis diversifolia
Cephaleuros virescens
Microclava coccolobiæ
Coccolobis laurifolia
Meliola rectangularis
Coccolobis nivea
Trabulia portoricensis
Coccolobis pyrifolia
Meliola prætervisa
Coccolobis sintenisii
Meliola prætervisa
Coccolobis uvifera
Lembasia coccolobæ
Coccolobis uvifera—*Cont.*
Pestalozzia uvifera
Uredo coccolobæ
Coccothrinax alta
Meliola furcata
Cocos nucifera
Pestalozzia palmarum
Thielaviopsis paradoxa
Coffea spp.
Pellicularia koleroga
Stilbella flavida
Coffea arabica
Cercospora coffeæ
Cercospora coffeicola
Colletotrichum coffeanum
Hemileia vastatrix
Micropeltis longispora
Pellicularia koleroga
Rosellinia bunodes
Stilbella flavida
Coffea excelsa
Stilbella flavida
Coffea Perrieri
Stilbella flavida
Coffea robusta
Stilbella flavida
Colocasia esculenta
Phyllosticta colocasicola
Commelina longicaulis
Illosporium commelinæ
Commelina nudiflora
Phyllosticta commelinicola
Stilbella flavida
Commelina virginica
Illosporium commelinæ
Uredo commelyneæ
Uromyces commelinæ
Comocladia glabra
Meliola comocladie
Conocarpus erecta
Meliola lagunculariæ

- Cordia* sp.
 Meliola longipoda
Cordia alliodora
 Puccinia cordiae
Cordia collococca
 Trabutiella cordiae
Cordia corymbosa
 Dimerium Stevensii
 Meliola longipoda
Cordia nitida
 Meliola longipoda
Cordia sulcata
 Dimeriella cordiae
Cordyline terminalis
 Phyllosticta maculicola
Cosmos caudatus
 Erysiphe cichoracearum
 Uromyces bidentis
Cosmos sulphureus
 Sphaerotheca humuli
Cracca cinerea
 Ravenelia caulicola
Crassina elegans
 Cercospora atricincta
Crossopetalum pallens
 Meliola compacta
Crotalaria retusa
 Dimerium grammodes
 Microsphaera diffusa
 Parodiella perisporioides
Croton discolor
 Asterina triloba
Croton lucidus
 Phyllosticta portoricensis
Cucumis anguria
 Pellicularia Koleroga
 Peronoplasmodora cubensis
Cucumis melo
 Colletotrichum lagenarium
 Mycosphaerella citrullina
 Peronoplasmodora cubensis
- Cucumis melo—Cont.*
 Phyllosticta citrullina
 Phytophthora terrestria
Cucumis sativus
 Colletotrichum lagenarium
 Peronoplasmodora cubensis
 Phyllosticta cucurbitacearum
Cucurbita moschata
 Peronoplasmodora cubensis
Cupania sp.
 Meliola cupaniae
Cupania americana
 Cephaleuros virescens
 Meliola cupaniae
 Meliola praetervisa
Cuphea parsonsia
 Uredo cupheae
Cydista æquinotialis
 Cephaleuros virescens
 Puccinia cuticulosa
Cymbopogon citratus
 Himantia stellifera
 Melanconium saccharinum
Cyperus sp.
 Meliola cyperi
Cyperus ferax
 Puccinia canaliculata
Cyperus giganteus
 Phyllachora cyperi
 Puccinia canaliculata
Cyperus laevigatus
 Puccinia canaliculata
Cyperus ligularis
 Cintractia limitata
Cyperus odoratus
 Puccinia canaliculata
Cyperus polystachus
 Puccinia canaliculata
Cyperus radiatus
 Puccinia canaliculata

Cyperus reticulatus
Puccinia canaliculata
Cyperus sphacelatus
Contraetia axicola
Puccinia canaliculata
Cyperus surinamensis
Puccinia canaliculata

D

Dahlia variabilis
Erysiphe cichoracearum
Dalbergia sp.
Meliola bicornis
Dalbergia monetaria
Meliola bicornis
Datura suaveolens
Alternaria solani
Daucus carota
Sclerotium Rolfsii
Dendropanax arboreum
Cephaleuros virescens
Meliola didymopanicis
Mycosphærella didymopanicis
Phyllosticta araliana
Dendropanax laurifolium
Meliola didymopanicis
Dianthus sp.
Alternaria dianthi
Dichromena ciliata
Uredo dichromenæ
Dichromena radicans
Uredo dichromenæ
Didymopanax morototoni
Mycosphærella didymopanicis
Dieffenbachia seguine
Meliola dieffenbachiae
Phyllosticta colocasiae
Diodia littoralis
Puccinia lateritia
Diodia maritima
Puccinia lateritia

Diodia rigida
Puccinia lateritia
Dioscorea alata
Cercospora carbonacea
Dioscorea polygonoides
Uredo dioscoreae
Dipholis salicifolia
Meliola dipholidis
Dolicholus minimus
Erysiphe polygoni
Uromyces dolicholi
Dolicholus reticulatus
Meliola bicornis
Uromyces dolicholi
Dolichos biflorus
Erysiphe polygoni
Dolichos lablab
Cercospora canescens
Physopella concors
Dorstenia contrajerva
Uredo rubescens
Drymaria cordata
Physalospora caryophyllini-
cola
Dryopteris mollis
Uredo gymnogrammes
Dryopteris poiteana
Uredo gymnogrammes
Drypetes sp.
Meliola glabra

E

Echinodorus cordifolius
Burrillia echinodori
Eleocharis capitata
Puccinia eleocharidis
Eleocharis cellulosa
Puccinia eleocharidis
Eleocharis flaccida
Puccinia eleocharidis

Eleocharis geniculata
 Puccinia eleocharidis
Eleocharis interstincta
 Puccinia eleocharidis
Eleocharis mutata
 Puccinia eleocharidis
Elephantopus mollis
 Coleosporium elephantopodis
 Stilbella flavida
Eleutheranthera ruderalis
 Puccinia synedrellæ
Emilia sonchifolia
 Puccinia synedrellæ
Epidendrum difforme
 Uredo guacæ
Epidendrum rigidum
 Uredo guacæ
Eragrostis tephrosanthos
 Uromyces eragrostidis
Erigeron pusillum
 Dimeriella erigeronicola
Erigeron spathulata
 Dimeriella erigeronicola
Eriobotrya japonica
 Cephaleuros virescens
Eriochloa subglabra
 Gibberella pulicaris
 Puccinia substriata
Erithalis fruticosa
 Meliola psychotriæ
Ernodea littoralis
 Puccinia lateritia
Erythrina glauca
 Uredo cabreriana
Erythrina micropteryx
 Meliola bicornis
 Phyllosticta erythrinicola
Erythroxylon areolatum
 Uredo erythroxylonis
Eugenia buxifolia
 Phyllosticta eugeniæ

Eugenia monticola
 Meliola Helleri
Eugenia Stahlia
 Meliola Helleri
Eupatorium sp.
 Erysiphe galeopsidia (?)
 Meliola compositarum
Eupatorium macrophyllum
 Coleosporium eupatorii
Eupatorium microstemum
 Erysiphe cichoracearum
Eupatorium odoratum
 Meliola compositarum
 Phyllosticta eupatoricola
Eupatorium polyodon
 Puccinia rosea
Eupatorium portoricense
 Meliola compositarum var.
 portoricense
Evolvulus nummularius
 Puccinia lithospermi
Exogonium repandum
 Phyllosticta ipomoeæ

F

Ficus sp.
 Kuehneola fici
 Physalospora hoyæ
Ficus carica
 Kuehneola fici
Ficus crassinervia
 Kuehneola fici
Ficus lævigata
 Cephaleuros virescens
 Kuehneola fici
Ficus lentiginosa
 Kuehneola fici
Ficus nitida
 Cephaleuros virescens
 Nummularia bulliardii
Ficus reptans
 Cephaleuros virescens

Fimbristylis diphylla
 Cintractia axicola
 Puccinia fimbristylidis
Fimbristylis ferruginea
 Cintractia axicola
 Puccinia fimbristylidis
 Uredo superior
Fimbristylis miliacea
 Puccinia fimbristylidis
Fimbristylis spadicea
 Uredo superior
Forsteronia corymbosa
 Meliola tabernæmontanæ var.
 forsteroniæ
Fragaria sp.
 Mycosphærella fragariæ
Fuirena umbellata
 Uredo fuirenæ
Furcræa tuberosa
 Endothia parryi
 Phoma fourcroyæ

G

Galactia dubia
 Meliola bicornis var. *galactiæ*
Galactia striata
 Phyllachora galactiæ
Galactia tenuiflora
 Phyllachora galactiæ
Garcinia mangostana
 Pellicularia koleroga
Gesneria albiflora
 Meliola gesneriæ
 Nitschkia nervincola
Goniopteris guadalupensis
 Uredo gymnogrammes
Gonzalagunia spicata
 Meliola psychotriæ
 Wageria portoricensis

Gossypium barbadense
 Cercospora gossypina
 Kuehneola gossypii
 Ramularia areola
Gossypium brasiliense
 Kuehneola gossypii
Gossypium hirsutum
 Kuehneola gossypii
Gouania lupuloides
 Meliola tenuissima
 Puccinia gouaniæ
 Uredo gouaniæ
Gouania polygama
 Puccinia gouaniæ
 Uredo gouaniæ
Graptophyllum pictum
 Rosellinia bunodes
Guarea trichilioides
 Meliola guareæ
 Meliola guareicola
 Phyllosticta guareæ
Guettarda ovalifolia
 Meliola guettardæ
 Meliola psychotriæ
 Septoria ovalifolia
Guettarda scabra
 Meliola psychotriæ
Guilandina crista
 Cercospora guanicensis
 Phyllosticta guanicensis
Gymnanthes lucida
 Meliola gymnanthicola
Gymnogramma sulphura
 Mycosphærella tyrolensis

H

Habenaria maculosa
 Uredo gynandrearum
Hamelia erecta
 Uredo hameliæ

- Helianthus annuus*
Bacterium solanacearum (?)
Helicteres jamaicensis
Cercospora trichophila
Guignardia helicteres
Phyllosticta borinquensis
Hemidiodia ocimifolia
Aecidium borrieriæ
Heterotrichum cymosum
Guignardia heterotrichi
Meliola melastomacearum
Phyllachora peribebuyensis
Hibiscus sp.
Cephaleuros virescens
Hibiscus esculentus
Cercospora hibisci
Choanephora cucurbitarum
Hibiscus sabdariffa
Microsphaera euphorbiæ
Hibiscus tiliaceus
Cercospora hibisci
Meliola triumfetta
Phyllachora minuta
Hippocratea volubilis
Botryorhiza hippocrateæ
Pestalozzia funerea
Holcus halepensis
Colletotrichum lineole
Puccinia purpurea
Holcus sorghum
Colletotrichum lineola
Puccinia purpurea
Holcus sorghum var. *sudanensis*
Puccinia purpurea
Hura crepitans
Cercospora huræ
Colletotrichum curvisetum
Hydrocotyle australis
Puccinia hydrocotyles
Hydrocotyle umbellata
Puccinia hydrocotyles
Hygrophila brasiliensis
Meliola irregularis
Hymenæa courbaril
Uredo hymenææ
Hymenocallis expansa
Cercospora amaryllidis
Gloeosporium hemerocallidis
Hypelate trifoliata
Meliola glabra
Hypoxis decumbens
Uredo globulosa
Hyptis sp.
Meliola hyptidicola
Hyptis atrorubens
Meliola hyptidicola
Puccinia medellinensis
Hyptis capitata
Meliola hyptidicola
Pseudomeliola collapsa
Puccinia hyptidis
Hyptis latanifolium
Meliola hyptidicola
Puccinia insititia
Hyptis pectinatum
Meliola hyptidicola
Puccinia medellinensis
Hyptis suaveolens
Puccinia medellinensis

I

Ichnanthus pallens
Dothichloe nigricans
Meliola panici
Puccinia substriata
Ilex nitida
Meliola maricænsis

- Indiogofera suffruticosa*
Ravenelia indigoferæ
Inga laurina
Cephaleuros virescens
Dimerium truncatum
Melasmia ingæ
Meliola toruloidea
Microstroma
Perisporium truncatum
Polystictus maximus
Ravenelia ingæ
Stereum caperatum
Inga vera
Antennularia tenuis
Cephaleuros virescens
Dimerium truncatum
Meliola toruloidea
Mycosphaerella maculiformis
Pestalozzia funerea
Ravenelia ingæ
Revenelia Whetzellii
Stilbella flavida
Inodes causiarum
Graphiola phœnicis
Ipomœa sp.
Meliola clavulata
Meliola ipomœæ
Ipomœa angustifolia
Coleosporium ipomœæ
Ipomœa batatas
Albugo ipomœæ-panduranæ
Coleosporium ipomœæ
Diplodia tubericola
Meliola clavulata
Meliola ipomœæ
Phyllosticta batatas
Rhizopus nigricans
Schizophyllum commune
Sclerotium bataticola
Ipomœa bona-nox
Cladosporium herbarum
Ipomœa cathartica
Meliola clavulata
Meliola ipomœæ
Meliola quadrispina
Ipomœa littoralis
Coleosporium ipomœæ
Ipomœa nil
Coleosporium ipomœæ
Ipomœa pes-capræ
Albugo ipomœæ-panduranæ
Ipomœa rubra
Coleosporium ipomœæ
Meliola clavulata
Ipomœa stolonifera
Coleosporium ipomœæ
Ipomœa tiliacea
Albugo ipomœæ-panduranæ
Meliola ipomœæ
Meliola clavulata
Ipomœa triloba
Puccinia crassipes
Iresine elatior
Puccinia macropoda
Iresine panniculata
Cercospora Gilbertii

J

- Jacquemontia rodiflora*
Albugo ipomœæ-panduranæ
Uromyces gemmatus
Jacquemontia tamnifolia
Albugo ipomœæ-panduranæ
Coleosporium ipomœæ
Jacquinia barbasco
Dimerina jacquinia
Jacquinia Berterii
Phyllachora inclusa
Jambosa jambos
Cephaleuros virescens
Pestalozzia funerea
Puccinia psidii

Jatropha curcas
Uredo jatrophiicola
Jatropha gossypifolia
Uredo jatrophiicola
Jatropha hernandifolia
Meliola jatrophae
Justicia verticillaris
Guignardia justiciae

K

Krugiodendron ferreum
Meliola thouinia
Kyllingia brevifolia
Puccinia canaliculata
Kyllingia pumila
Puccinia canaliculata

L

Lactuca intybacea
Uredo proximella
Lactuca sativa
Cercospora lactucae
Physarum cinereum
Lagenaria leucantha
Cercospora cucurbitae
Laguncularia racemosa
Meliola lagunculariae
Meliola nigra
Mycrothyrium lagunculariae
Physalospora lagunculariae
Lantana sp.
Meliola ambigua
Lantana camara
Diatrypella lantanæ
Meliola ambigua
Perisporina lantanæ
Phyllosticta lantanæ
Puccinia lantanæ
Septoria lantanæ
Lantana involucrata
Puccinia lantanæ

Lantana odorata
Meliola ambigua
Lasiacis divaricata
Meliola panici
Uromyces leptodermus
Lasiacis lingulata
Uromyces leptodermus
Lasiacis ruscifolia
Meliola panici
Lasiacis Sloanei
Asterina fumagina
Meliola panici
Uromyces leptodermus
Lasiacis sorghoidea
Cephaleuros virescens
Meliola panici
Phyllachora graminis
Physalospora bambusæ
Uromyces leptodermus
Leonotis nepetæfolia
Puccinia leonotidis
Lepidium sp.
Cercospora lepidii
Lepidium virginicum
Albugo candida
Cercospora lepidii
Leptilon canadense
Dimeriella erigeronicola
Lobelia sp.
Entyloma lobeliae
Lobelia assurgens var. *portoricensis*
Colletotrichum lobeliae
Lonchocarpus glaucifolius
Meliola bicornis
Lonicera japonica
Cephaleuros virescens
Lucuma multiflora
Meliola lucumæ
Luffa ægyptica
Pellicularia koleroga

Luffa cylindrica
Peronoplasmopora cubensis
Lycopersicum esculentum
Bacillus solanacearum
Cladosporium fulvum
Colletotrichum phomoides
Phoma destructiva
Phytophthora infestans
Phytophthora terrestria
Sclerotium Rolfsii
Septoria lycopersici

M

Macrodiscus lactiflorus
Meliola furcata
Magnolia portoricensis
Meliola magnoliæ
Malachra rotundifolia
Cercospora malachræ
Malachra scabra
Kuehneola malvicola
Puccinia heterospora
Mammea americana
Meliola paullinæ
Mangifera indica
Capnodium mangiferum
Cephaleuros virescens
Colletotrichum gloeosporioides
Meliola mangiferae
Pestalozzia guepinia
Stilbella flavida
Strigula complanata
Manihot manihot
Cercospora cassavæ
Cercospora henningsii
Microsphaera euphorbiæ
Uromyces janiphæ
Mariscus jamaicensis
Meliola cireinans
Meliola cyperi
Puccinia cladii

Mayepea domingensis
Meliola mayepea
Meliola mayepeicola
Meibomia adscendens
Dimerium grammodes
Meliola bicornis
Microsphaera diffusa
Meibomia axillaris
Cephaleuros virescens
Meliola bicornis
Uromyces hedysari-paniculati
Meibomia barbata
Dimerium grammodes
Meibomia scorpiurus
Microsphaera diffusa
Uromyces hedysari-paniculati
Meibomia supina
Meliola bicornis
Microsphaera diffusa
Physopella meibomiæ
Meibomia tortuosum
Microsphaera diffusa
Uromyces hedysari-paniculati
Melanthera canescens
Sphærotheca humuli
Uromyces columbianus
Melia azedarach
Peniophora galachroa
Polystictus pavonius
Melothria guadalupensis
Uromyces Hellerianus
Metastelma lineare
Puccinia obliqua
Metastelma parviflorum
Puccinia obliqua
Miconia sp.
Lembosia diffusa
Monogrammia miconiæ
Napieladium fumago
Triposporium stelligerum

*Miconia impetio*laris
 Cephaleuros virescens
 Meliola melastomacearum
 Septoria miconiæ
Miconia lævigata
 Blastotrichum miconiæ
 Borinquenia miconiæ
 Cephaleuros virescens
 Hyalosphæra miconiæ
 Meliola melastomacearum
 Microclava miconiæ
 Phyllachora peribebuyensis
 Septoria miconiæ
Miconia prasina
 Meliola miconiæ
 Phyllachora peribebuyensis
Miconia racemosa
 Meliola melastomacearum
Miconia Sintenisii
 *Meliola miconiæ*icola
 Phyllachora peribebuyensis
Mikania sp.
 Cercospora mikaniicola
 Cladosporium mikaniæ
 Meliola compositarum
 Septoria mikaniæ
Mikania cordifolia
 Endophylloides portoricensis
Mikania odoratissima
 Endophylloides portoricensis
Mikania scandens
 Puccinia Spegazzini
Mimosa ceratonia
 Meliola bicornis
 Ravenelia casalpinia
Mitracarpus portoricensis
 Meliola psychotriæ
 Puccinia lateritia
Momisia iguanea
 Phyllosticta momisiana

Mucuna pruriens
 Cercospora mucunæ
 Mycosphærella mucunæ
Muehlenbeckia platyclada
 Cephaleuros virescens
Musa sp.
 Antennularia (?) *tenuis*
Musa paradisiaca
 Fusarium cubense
 Fusarium radiculicola
 Glœosporium musarum
 Nectria suffulta
 Pestalozzia funerea
 Stilbella flavida
Myrcia sp.
 Cephaleuros virescens
Myrcia deflexa
 Cephaleuros virescens
 Meliola Helleri
 Triposporium stelligerum
Myrcia splendens
 Meliola Helleri
Myrica cerifera
 Meliola manca

N

Nectandra sp.
 Cephaleuros virescens
Nectandra patens
 Cephaleuros virescens
 Meliola glabroides
Nephrolepis rivularis
 Milesia columbiensis
Neurolæna lobata
 Puccinia synedrellæ
Nicotiana tobacum
 Ascochyta nicotianæ
 Bacillus solanacearum
 Cercospora nicotianæ

O

- Ocimum micranthum*
Sphaerotheca humuli
Ocotea leucoxydon
Cephaleuros virescens
Meliola ocoteæ
Meliola ocoteicola
Olyra latifolia
Asterina fumagina
Dimeriella olyræ
Meliola panici
Puccinia deformata
Operculina dissecta
Uredo operculinæ
Oplismenus hirtellus
Phyllachora puncta
Uredo olyræ
Oplismenus setarius
Meliola panici
Opuntia sp.
Diplodia opuntiae
Perisporiopsis Wrightii
Opuntia dillenii
Septoria fic-indicæ
Ormosia krugii
Puccinia ormosiæ
Oryza sativa
Cercospora oryzæ
Piricularia grisea

P

- Palicourea* sp.
Meliola glabra var. *psychotriæ*
Meliola mayaguesiana
Palicourea crocea
Meliola mayaguesiana
Puccinia fallaciosa

- Palicourea domingensis*
Meliola glabra var. *psychotriæ*
Meliola mayaguesiana
Palicourea riparia
Meliola mayaguesiana
Puccinia fallaciosa
Panax plumatum
Rosellinia bunodes
Pandanus sp.
Colletotrichum omnivorum
Phyllosticta pandanicola
Panicum barbinode
Uromyces leptodermus
Panicum fasciculatum
Puccinia Huberi
Panicum glutinosum
Meliola panici
Panicum laxum
Ustilaginoidea usambarensis
Panicum maximum
Himantia stellifera
Otthia panici
Phyllosticta panici
Panicum parvifolium
Uromyces leptodermus
Panicum tricanthum
Hypocrella hypoxylon
Panicum trichoides
Puccinia Huberi
Panicum utowanæum
Puccinia Huberi
Parathesis serrulata
Meliola parathesicola
Paspalum conjugatum
Helminthosporium mayaguezense
Myriogenospora Bresadoleana
Phyllachora graminis
Uredo paspalicola

- Paspalum fimbriatum*
Puccinia levis
Paspalum glabrum
Puccinia substriata
Uredo paspalicola
Paspalum millegrana
Himantia stellifera
Phyllachora andropogonis
Puccinia levis
Paspalum orbiculatum
Puccinia substriata
Paspalum paniculatum
Puccinia substriata
Uredo paspalicola
Paspalum plicatulum
Claviceps paspali
Puccinia levis
Uredo paspalicola
Paspalum portoricense
Puccinia substriata
Paspalum secans
Himantia stellifera
Meliola panici
Puccinia substriata
Paspalum virgatum
Phyllachora cornuospora
Passiflora foetida
Helminthosporium Stahlil
Passiflora rubra
Aecidium passifloriicola
Passiflora sexflora
Cercospora biformis
Phyllosticta superficiale
Paullinia pinnata
Dexteria pulchella
Meliola Hessii
Meliola paulliniæ
Pavonia racemosa
Uromyces pavoniæ
Peperomia hernandifolia
Uredo piperis
- Persea gratissima*
Meliola perseæ
Mycosphaerella perseæ
Phyllachora gratissima
Persicaria portoricensis
Puccinia polygoni-amphibii
Persicaria punctata
Cercospora hydropiperis
Puccinia polygoni-amphibii
Petitia domingensis
Olivea petitiae
Septoria petitiae
Petiveria alliacea
Rosellinia bunodes
Vermicularia atricha
Phaseolus sp.
Cercosporium beticola
Erysiphe polygoni
Phytophthora phaseoli
Uromyces appendiculatus
Phaseolus adenanthus
Erysiphe polygoni
Uromyces appendiculatus
Zythia phaseoli
Phaseolus lathyroides
Uromyces appendiculatus
Phaseolus lunatus
Cercospora canescens
Cercospora cruenta
Dimerium grammodes
Isariopsis griseola
Physopella concors
Phaseolus max
Erysiphe polygoni
Phaseolus vulgaris
Bacterium phaseoli
Cercospora canescens
Colletotrichum lindemuthia-
num
Erysiphe polygoni
Isariopsis griseola

Phaseolus vulgaris—*Cont.*

- Physarum cinereum
- Phytophthora phaseoli
- Phytophthora terrestria
- Sclerotium Rolfsii
- Uromyces appendiculatus
- Philodendron krebsii
- Colletotrichum philodendri
- Meliola philodendri
- Phoenix dactylifera
- Graphiola phoenicis
- Phoenix reclinata
- Pestalozzia palmarum
- Phyllanthus distichus
- Schröeteriaster fenestrala
- Phyllanthus grandifolius
- Schröeteriaster fenestrala
- Phyllanthus niruri
- Schröeteriaster fenestrala
- Phyllanthus nobilis
- Aecidium favaceum
- Physalis sp.
- Entyloma australe
- Phytolacca icosandra
- Cercospora flagellaris
- Pilea sp.
- Meliola Earlii
- Pilea nummularifolia
- Meliola Earlii
- Pilea parietaria
- Meliola Earlii
- Meliola triloba
- Pilocarpus racemosus
- Meliola pilocarp
- Piper sp.
- Triposporium stelligerum
- Piper aduncum
- Cercospora portoricensis
- Meliola gaillardiana

Piper aduncum—*Cont.*

- Meliola glabra
- Meliola glabroides
- Meliola piperis
- Piper blattarum
- Meliola paucipes
- Piper hispidum
- Cercospora portoricensis
- Meliola contorta
- Piper macrophyllum
- Stilbella flavida
- Piper marginatum
- Guignardia pipericola
- Piper medium
- Cephaleuros virescens
- Cyclodothis pulchella
- Guignardia pipericola
- Meliola tortuosa
- Ramularia cylindrosporioides
- Piper peltatum
- Cercospora portoricensis
- Meliola tortuosa
- Piper umbellatum
- Cercospora portoricensis
- Colletotrichum piperis
- Meliola tortuosa
- Piptadenia peregrina
- Ravenelia cebil
- Pisum sativum
- Cercospora pisa-sativæ
- Erysiphe polygoni
- Pitcairnia angustifolia
- Diachea leucopoda
- Pithecolobium saman
- Microstroma
- Pithecolobium unguis-cati
- Colletotrichum erythrinæ
- Pestalozzia funerea
- Phyllosticta pithecolobii
- Phyllosticta pithecolobii var. monensis

Pityrogramma calomelanos
Septoria pityrogrammæ
Uredo gymnogrammes
Pluchea odorata
Uredo pluchæ
Pluchea purpurascens
Uredo pluchæ
Plumiera alba
Coleosporium plumieræ
Plumiera Krugii
Coleosporium plumieræ
Meliola tabernæmontanæ
Plumiera obtusa
Coleosporium plumieræ
Podocarpus coriaceus
Corynelia oreophila
Poinciana pulcherrima
Pestalozzia funerea
Polypodium sp.
Cereospora phyllitidis
Polyscias guilfoylei var. *victoriae*
Cephaleuros virescens
Nectria episphæria
Portulaca oleracea
Albugo portulacæ
Prescottia oligantha
Uredo gynandrearum
Pseudelephantopus spicatus
Meliola cyclopoda
Psidium guajava
Cephaleuros virescens
Glomerella psidii
Meliola psidii
Puccinia psidii
Psychotria sp.
Meliola glabra var. *psychotriæ*
Meliola psychotriæ

Psychotria bertiana
Meliola glabra var. *psychotriæ*
Psychotria grandis
Meliola glabra var. *psychotriæ*
Psychotria patens
Puccinia fallaciosa
Psychotria pubescens
Meliola glabra var. *psychotriæ*
Psychotria uliginosa
Stilbella flavida

Q

Quamoclit coccinea
Coleosporium ipomoeæ

R

Rajania cordata
Uredo dioscoreæ
Randia aculeata
Aecidium abscedens
Meliola psychotriæ
Podosporium pallidum
Rauwolfia nitida
Meliola tabernæmontanæ
Rauwolfia tetraphylla
Meliola tabernæmontanæ
Rhipsalis cassytha
Phæospora cacticola
Rhizophora mangle
Anthostomella rhizomorphæ
Rhynchosia reticulata
Synchytrium decipiens
Ricinus communis
Cercospora ricinella
Rivina humilis
Puccinia rivinæ

Rosa spp.*Actinonema rosæ**Cercospora rosicola**Septoria rosæ**Sphærotheca humuli**Rourea glabra**Micropeltis æruginescens**Roystonea borinquena**Meliola denticulata**Rubus* sp.*Meliola puiggarii**Rudolphia volubilis**Meliola rudolphiæ**Triposporium stelligerum**Rynchospora aurea**Cintractia utriculicola**Meliola circinans**Puccinia angustatoides**Rynchospora corymbosa**Cintractia leucoderma**Cintractia utriculicola**Puccinia angustatoides**Rynchospora cyperoides**Guignardia rynchosporæ**Puccinia angustatoides**Rynchospora distans**Uromyces rhyncosporæ**Rynchospora gigantea**Cintractia leucoderma**Meliola circinans**Rynchospora mierantha**Uromyces rhyncosporæ**Rynchospora setacea**Uromyces rhyncosporæ**Rytillix granularis**Opidiella uredinis**Puccinia levis*

S

*Sabicea aspera**Uredo sabiceicola**Saccharum officinarum**Arcyria cinerea**Arcyria denudata**Arthrimum saccharicola**Arthrobotrys superba**Aspergillus flavus**Aspergillus niger**Asterostroma cervicolor**Basisporium gallarum**Cercospora longipes**Cercospora vaginæ**Chromocrea gelatinosa**Chromocreopsis striispora**Cladoderris dentritica**Cladosporium herbarum**Colletotrichum falcatum**Corticium arachnoideum**Craterium aureum**Craterium leucocephalum**Cyathus pœppigii**Cytospora sacchari**Dictydium cancellatum**Diplodia cacaicola**Eurotium argentinum**Fuligo septica**Gibberella pulicaris**Graphium sacchari**Guepinia palmiceps**Guepinia spathulata**Helminthosporium sacchari**Himantia stellifera**Hormiaetella sacchari**Hydnum sacchari**Hypocrea rufa**Lachnea cubensis**Lentinus crinitus**Leptosphaeria sacchari**Lycogala epidendrum**Lycoperdon albidum**Lycoperdon pusillum**Lycoperdon pyriforme*

Saccharum officinarum—Cont.

Marasmius borinquensis
Marasmius Hiorami
Marasmius sacchari
Marasmius synodicus
Melanconium sacchari
Melanconium saccharinum
Merulius byssoides
Monilia sitophila
Myrothecium verrucaria
Nectria flavociliata
Nectria laurentiana
Odontia sacchari
Odontia saccharicola
Peniophora cinerea
Peniophora flavido-alba
Periconia sacchari
Phyllosticta sacchari
Physalospora tucumanensis
Physarum compressum
Physarum nodulosum
Polystictus occidentalis
Polystictus sanguineus
Polystictus sinuosus
Rosellinia paraguayensis
Rosellinia pulveracea
Schizophyllum commune
Scirrha lophodermioides
Sclerotium griseum
Sclerotium Rolfsii
Scytinotus distantifolius
Septonema sacchari
Spegazzinia ornata
Sphaerella sacchari
Sphærobolus stellatus
Stemonitis fusca
Stemonitis splendens
Tetracoccusporis sacchari
Tetraploa aristata
Thielaviopsis paradoxa
Trametes nivosa

Saccharum officinarum—Cont.

Tremellodendron simplex
Trichoderma lignorum
Tubercularia saccharicola
Valsa sacchari
Valsaria subtropica
Vermicularia graminicola
Verticicladium graminicolum
Xylaria apiculata
Sabinea punicea
Uromyces sabineæ
Salvia coccinea
Puccinia farinacea
Salvia occidentalis
Puccinia salviicola
Sauvagesia erecta
Meliola glabra
Meliola glabroides
Uredo sauvagesiæ
Schæfferia frutescens
Microthyrium Urbani
Schlegelia
Meliola glabroides var. *schlegeliæ*
Schlegelia brachyantha
Phyllachora nitens
Scirpus lacustris
Puccinia scirpi
Scleria sp.
Meliola cyperi
Scleria canescens
Uromyces scleriæ
Scleria cubensis
Puccinia scleriæ
Scleria hirtella
Puccinia scleriicola
Scleria pterota
Phyllachora scleriæ
Puccinia scleriæ
Uromyces scleriæ

- Sechium edule*
 Cercospora sechiæ
 Heminthosporium sechiicolum
 Phyllosticta sechii
Securidaca virgata
 Phyllachora perforans
Serjania polyphylla
 Meliola serjanæ
Sesamum orientale
 Cercospora sesami
Sida sp.
 Cercospora densissima
Sida carpinifolia
 Asterina sidæ
 Dimerosporium appendiculatum
Sida glutinosa
 Puccinia heterospora
Sida hederifolia
 Puccinia heterospora
Sida humilis
 Puccinia heterospora
Sida procumbens
 Puccinia heterospora
Sida spinosa
 Puccinia heterospora
Sida urens
 Meliola molleriana
 Puccinia heterospora
Simaruba tulæ
 Meliola glabroides
Smilax sp.
 Meliola smilacis
Smilax coriacea
 Meliola smilacis
Smilax domingensis
 Puccinia smilacis
Solanum jamaicense
 Meliola solani
- Solanum melongena*
 Bacillus solanacearum
 Cladosporium herbarum
 Glæosporium melongenæ
 Phomopsis vexans
 Sclerotium Rolfsii
Solanum nigrum
 Cercospora rigospora
Solanum persicifolium
 Meliola glabroides
Solanum rugosum
 Meliola glabroides
Solanum torvum
 Aecidium tubulosum
 Cercospora trichophila
 Cladosporium fulvum
 Erysiphe cichoracearum
 Puccinia substriata
Solanum tuberosum
 Alternaria solani
 Phytophthora infestans
 Rhizoetonia solani (?)
Solanum verbascifolium
 Cercospora trichophila
Somidesia lindeniana
 Cephaleuros virescens
Spermacoce riparia
 Puccinia lateritia
Spermacoce tenuior
 Puccinia lateritia
Sphenoclea zeylanica
 Cercosporidium Helleri
Spondias mombin
 Meliola comocladia
Sporobolus indicus
 Helminthosporium Ravenellii
 Uromyces ignobilis
Sporobolus virginicus
 Uromyces ignobilis
Stenolobium stans
 Prosopodium appendiculatum

Stenorrhynchus lanceolatus

Uredo pustulata

Stenotaphrum secundatum

Meliola stenotaphri

Ustilago affinis

Stigmaphyllon lingulatum

Puccinia inflata

Stizolobium sp.

Cercospora mucunæ

Stizolobium aterinium

Cercospora mucunæ

Struchium sparganophorum

Uredo sparganophori

Synedrella nodiflora

Puccinia synedrellæ

Stilbella flavida

Syntherisma digitata

Piricularia grisea

Puccinia substriata

Syntherisma sanguinalis

Mycosphærella maydis

T

Tabebuia hæmantha

Meliola bidentata

Mycosphærella tabebuia

Tabernaemontana oppositifolia

Meliola tabernaemontana

Tagetes erecta

Puccinia tageticola

Tagetes patula

Puccinia tageticola

Tamonea sp.

Hypocrella tamoneæ

Tecoma sp.

Meliola tecomæ

Tecoma pentaphylla

Meliola bidentata

Meliola tecomæ

Prospodium plagiopus

Tectaria marteniensis

Uredo gymnogammes

Teramnus uncinatus

Cercospora maricaoensis

Meliola bicornis

Uredo concors

Uromyces cologania

Tetragastris balsamifera

Meliola amphitrica

Tetrazygia sp.

Guignardia tetrazygiæ

Phyllachora peribebuyensis

Thalia geniculata

Puccinia cannæ

Theobroma cacao

Cephaleuros virescens

Colletotrichum Cradwickii

Creonectria Bainii

Diplodia cacaicola

Nectria colorans

Thouinia sp.

Cladosporium hypophloem

Thouinia striata

Cercospora thouiniæ

Meliola thouiniæ

Thrinax

Helminthosporium spiculiferum

Thrinax ponceana

Meliola furcata

Thrinax præceps

Graphiola phœnicis

Meliola furcata

Tournefortia bicolor

Aecidium tournefortiæ

Tournefortia hirsutissima

Aecidium tournefortiæ

Meliola longipoda

Tournefortia microphylla

Aecidium tournefortiæ

Trichilia pallida
Uredo trichiliæ
Trichostigma octandrum
Cercospora trichostigmæ
Linospora trichostigmæ
Puccinia rivinæ

Triticum vulgare
Sclerotium Rolfsii

Triumfetta lappula
Pucciniosira pallidula
Triumfetta rhomboidea
Pucciniosira pallidula

Triumfetta semitriloba
Meliola triumfettæ
Phyllosticta Stevensii
Pucciniosira pallidula

Turpinia panniculata
Meliola guignardi

U

Urechites lutea
Phyllosticta glaucispora

V

Vachellia farnesiana
Ravenelia siliquæ
Valerianodes cayennensis
Endophyllum stachytarphetæ
Meliola glabroides

Valerianodes jamaicensis
Puccinia Urbaniana
Valerianodes strigosa
Puccinia Urbaniana

Valota insularis
Phyllachora graminis
Puccinia substriata
Sphacelotheca panici-leucophæi

Vanilla Eggersii
Glomerella cingulata

Vanilla planifolia
Cephaleuros virescens
Fusarium solani
Gloeosporium (vanillæ) rufo-maculans
Pellicularia koleroga

Varronia sp.
Helminthosporium varroniæ
Meliola molleriana

Varronia alba
Metasphaeria abortiva

Verbena sp.
Sphaerotheca humuli

Vernonia albicaulis
Argomyces insulanus
Argomyces vernoniæ

Vernonia borinquensis
Argomyces vernoniæ

Vernonia longifolia
Argomyces insulanus

Vernonia phyllostachya
Argomyces vernoniæ

Vicia faba
Sclerotium Rolfsii

Vigna repens
Dimerium grammodes
Erysiphe polygoni
Uromyces appendiculatus

Vigna vexillata
Hyponectria phaseoli
Uromyces appendiculatus

Vigna unguiculata
Cercospora cruenta
Cercospora vignæ
Erysiphe polygoni
Physarum cinereum

Viola sp.
Cercospora violæ
Gloeosporium violæ

Vitex divaricata

Ophiobolus barbatus

Vitis vinifera

Physopella vitis

W

Wedelia lanceolata

Uredo vicina

Wedelia reticulata

Uromyces pianhyensis

Wedelia trilobata

Endophyllum wedeliæ

Willoughbæa sp.

Meliola compositarum

Winterana canella

Meliola thouiniæ

Tripodsporium stelligerum

Wissadula periplocifolia

Puccinia heterospora

X

Xanthium longirostre

Puccinia xanthii

Sphærotheca humuli

Xanthosoma sagittifolium

Periconia pycnospora

Z

Zamia integrifolia

Tripodsporium stelligerum

Zea mays

Helminthosporium turcinum

Himantia stellifera

Phyllachora maydis

Sclerotium griseum

Uredo pallida

Ustilago zeæ

Zornia diphylla

Puccinia zorniae

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